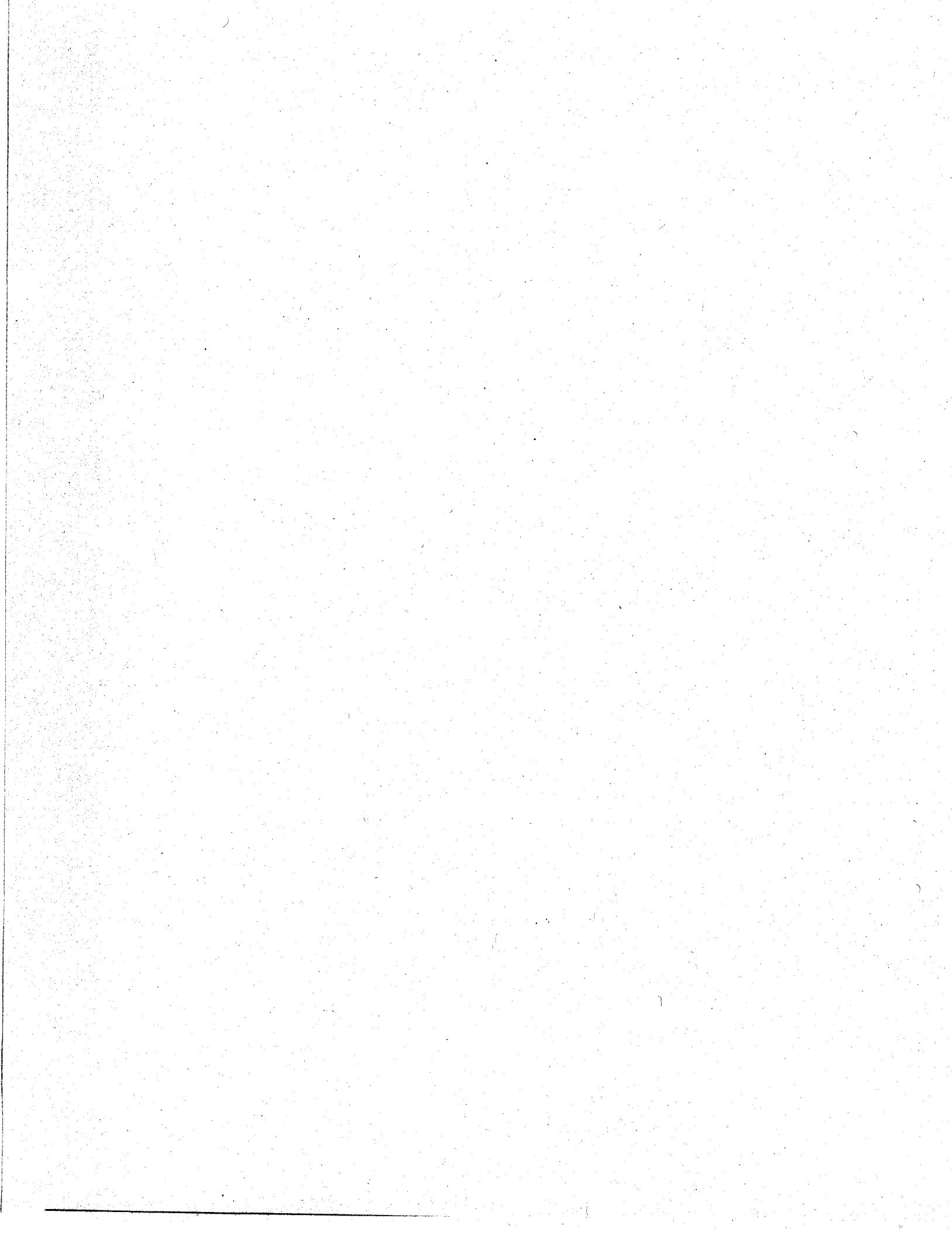


Appendix A



MEASUREMENT UNITS

Scribner is the only board foot scale used in this report, but some mills use more than one scale. Others use cubic scale, although there appears to be no strong shift to using cubic measure.

Lumber, veneer and plywood mills relied almost entirely on Scribner scale. Pulp and board mills used tons, cords and cubic measure as well as board foot scale. Although the export, shake and shingle, and post, pole and piling mills made extensive use of Scribner scale, they also reported a variety of other measurement units: cords, bolts, pieces, shake blocks, squares, lineal feet, etc.

Board foot is the unit of measure used in this report for all wood consumption. An exception is allowed for purchased or transferred veneer consumed by plywood mills (square feet, 3/8-inch basis) and chips and other residue consumed by pulp mills (bone dry tons).

The following measurement units were used:

Board foot lumber tally is used for lumber production.

Square feet 3/8-inch basis is used for plywood and veneer production.

Square (10' x 10') area coverage is used for shake and shingle production.

Board foot Scribner is used for log export shipments and for post, pole and piling production.

Bolt, pieces and shake blocks were generally converted to Scribner scale by the operator. Measurement equivalencies are shown below.

Unit conversion used in this report:

Lumber Industry

1.3 board feet = 1 board foot, Scribner (approximately)
lumber tally

Veneer and Plywood (3/8-inch basis)

2.5 square feet = 1 board foot, Scribner
1 square foot = 0.885 square meters
1,130 square feet = 1 cubic meter

Pulp and Board

1 cord = 500 board feet = 2.41 cubic
meters(S.W.E.)*
1 short ton = 500 board feet = 0.907 metric tons
200 cubic foot units = 1 bone dry ton = 0.907 metric tons
1 bone dry unit = 1.2 bone dry tons = 1.088 metric tons

Shake and Shingle

10 squares** = 1,000 board feet = 4.7 cubic
meters(S.W.E.)*

Post, Pole and Piling

1 cubic foot = 6 board feet

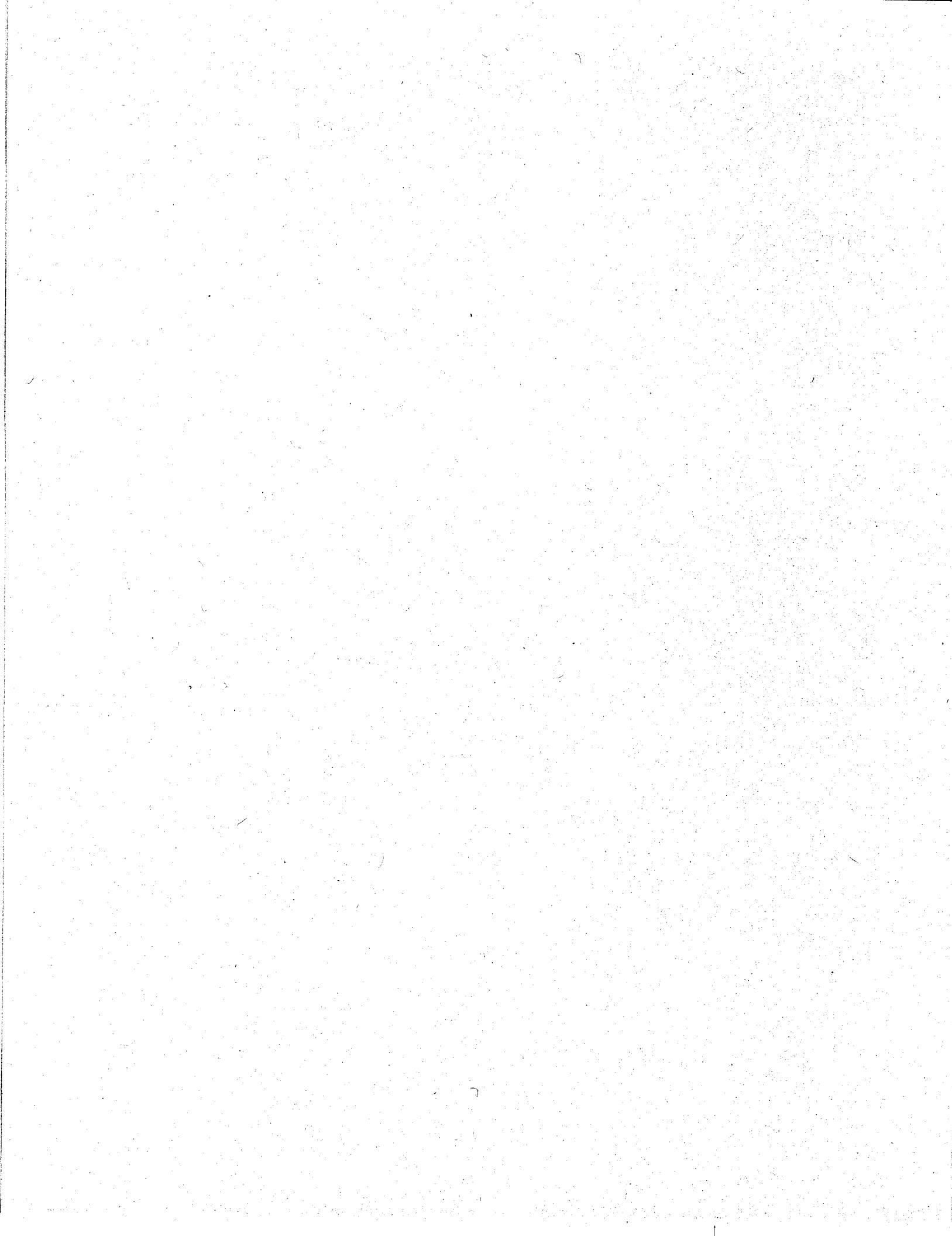
All Industries

211.9 board feet = 1 cubic meter

*(S.W.E.) = solid wood equivalent

**One square covers 100 square feet

Appendix B



Mill Residues

Residue production figures in this report are calculated, not reported values. The mills were asked merely to indicate on a percent basis the uses made of their various residues. These percents were applied to residue estimates developed using the following residue factors:

Softwood Sawmill Residues[†]

Average quantity of residue developed in producing the equivalent of 1,000 square feet of $\frac{1}{2}$ -inch plywood (rough basis).

<u>Plywood residue</u>	<u>Solid volume</u> (Cubic feet ^{††})	<u>Dry weight</u> (Tons)	<u>Residue type</u> (Percent)
Wood residue			
Log trim	3.4	0.048	4.2
Cores	6.3	0.088	7.8
Veneer clippings, roundup & spur trim	19.3	0.270	23.7
Dry trim & layup loss	6.3	0.088	7.8
Sander dust	1.6	0.022	1.9
Total wood residue	36.9	0.516	45.4
Bark	8.8	0.132	11.6
All residue	45.7	0.648	57.0
Plywood	34.9	0.489	43.0
 Whole log	 80.6	 1.137	 100.0

[†]All residue factors except sander dust and bark from data collected via various mill studies by the Characterization and Utilization of Western Softwoods and Forest Residues Project, Pacific Northwest Forest and Range Experiment Station, and compiled by James O. Howard, Resource Analyst. Sander dust and bark factors based on data from Oregon mills compiled in 1967 by Oregon State University, School of Forestry. Because of the similarity of mills and species used, no adjustment was made in applying these data to Washington.

^{††}Green Volume.

Softwood Plywood Residues[†]

Average quantity of residues developed from producing 1,000 board feet of lumber.

<u>Item</u>	<u>Solid volume^{††}</u> (Cubic feet) (Percent)	<u>Dry weight</u> (Tons)	<u>Residue type</u>
Wood residue			
Slabs, edgings, sawmill trim	36	24.8	0.486
Planer trim	3	2.1	0.041
Sawdust	16	11.0	0.216
Planer shavings	16	11.0	0.216
Total wood residue	71	48.9	0.959
Bark	17	11.7	0.258
Lumber	57	39.4	0.864
Whole log	145	100.0	2.081

[†]Based on data from Oregon mills compiled by Oregon State University, School of Forestry, in 1967, and adjusted for changes in lumber standards by James O. Howard, Resource Analyst, Pacific Northwest Forest and Range Experiment Station. Dry weights adjusted for different species mix utilized in Washington.

^{††}Green Volume.

Shingle Mill Residues[†]

Average quantity of residue developed in utilizing 1,000 board feet of logs, Scribner scale, or in producing the equivalent volume of 10 squares.

Shake and shingle residue

	Solid volume		Dry weight
	(Cubic Feet)	(Percent)	(Tons)
Shingles:			
Coarse	23	13.7	0.22
Fine	78	46.8	0.75
Bark	19	11.5	0.28
Shakes:			
Coarse	23	13.7	0.22
Fine	24	14.5	0.23
Bark	19	11.5	0.28

†From information provided by the Red Cedar Shingle Bureau

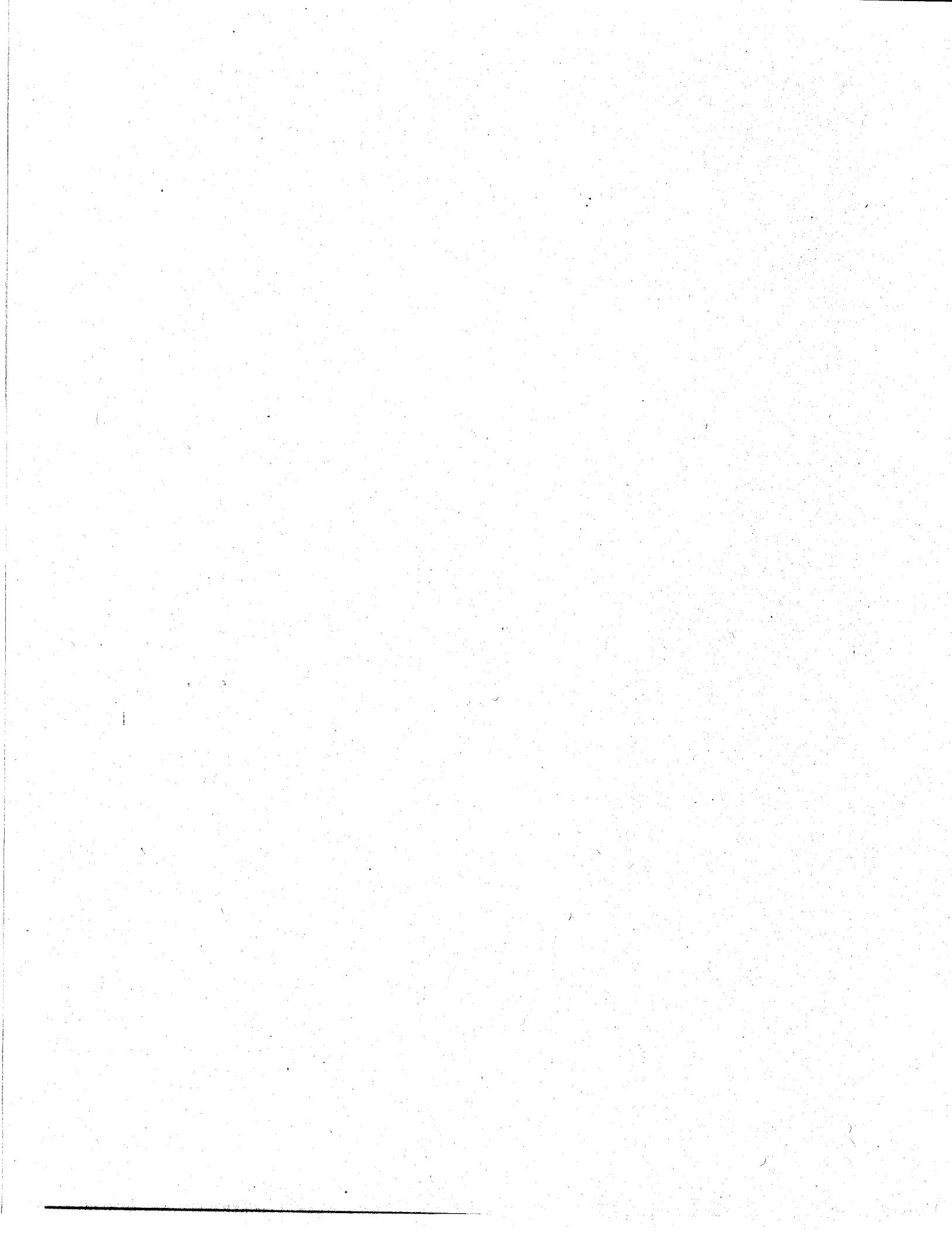
Hardwood Sawmill Residues[†]

Average residue developed from producing 1,000 board feet of lumber using a narrow kerf bandsaw.

Item	200 cu. ft. (Units)	Dry weight (Tons)	Residue type
Wood residue			
Slabs, edgings, sawmill			
Trim & planer trim	0.71	0.60	Coarse
Planer shavings	0.26	0.22	Medium
Sawdust	0.27	0.23	Fine
Bark	0.40	0.34	Bark

†Based on information furnished by Northwest Hardwoods, Inc.

Appendix C



COMPUTER PROGRAM USED FOR THIS REPORT

The automated Mill Survey System was developed on an IBM 370/158 MVS computer at the Washington Data Processing Service Center, Olympia, Washington.

The master file was built and edited by programs written in ANSI COBOL. Each mill type has its own independent edit program and was designed so that data changes could be made by Department of Natural Resources staff using on-line terminals. The calculations for the various tables and summaries were produced by separate ANSI COBOL and SAS programs. There are two ANSI COBOL programs for each ANSI COBOL table. One selects the data from the master file; the other program summarized and formats the table.

The program package was designed to handle other states' data with minor modifications.

A complete documentation package for this system consists of:

Warnier Diagram for each ANSI COBOL program

Sample input documents

Keypunch instructions

File descriptions for each file

Data description including edit criteria for each field

Reasonableness edits for each input file

Edit error message tables for each input file

Report layouts of each output report

Sample output reports

Source Program listings

Job Control Language listings for execution of system



Appendix D



Table D-1
Number of Mills by Timber Industry

Economic area and county	All industries	Industry					
		Lumber	Veneer and plywood	Pulp ¹	Shake and shingle	Export ²	Post, pole and piling
Puget Sound							
Island	1	1	--	--	--	--	--
King	10	8	1	--	--	--	1
Kitsap	1	1	--	--	--	--	--
Pierce	28	5	3	2	3	14	1
San Juan	1	1	--	--	--	--	--
Skagit	20	3	1	--	14	2	--
Snohomish	52	18	1	1	12	19	1
Whatcom	9	3	1	2	2	--	1
Total	122	40	7	5	31	35	4
Olympic Peninsula							
Clallam	61	8	2	2	30	18	1
Grays Harbor	60	7	2	2	29	20	--
Jefferson	4	2	--	1	1	--	--
Lewis	21	8	2	--	10	--	1
Mason	6	4	1	--	--	--	1
Pacific	4	1	--	--	3	--	--
Thurston	18	3	3	--	--	10	2
Total	174	33	10	5	73	48	5
Lower Columbia							
Clark	11	4	1	2	3	--	1
Cowlitz	35	5	1	5	6	18	--
Klickitat	5	4	1	--	--	--	--
Skamania	2	1	1	--	--	--	--
Wahkiakum	3	--	--	--	3	--	--
Total	56	14	4	7	12	18	1
Central Washington							
Adams	--	--	--	--	--	--	--
Benton	--	--	--	--	--	--	--
Chelan	1	1	--	--	--	--	--
Douglas	--	--	--	--	--	--	--
Franklin	--	--	--	--	--	--	--
Grant	--	--	--	--	--	--	--
Kittitas	1	--	1	--	--	--	--
Lincoln	--	--	--	--	--	--	--
Okanogan	6	4	2	--	--	--	--
Yakima	5	4	1	--	--	--	--
Total	13	9	4	--	--	--	--
Inland Empire							
Asotin	2	2	--	--	--	--	--
Columbia	--	--	--	--	--	--	--
Ferry	3	3	--	--	--	--	--
Garfield	--	--	--	--	--	--	--
Pend Oreille	--	--	--	--	--	--	--
Spokane	3	2	--	--	--	--	--
Stevens	17	12	1	1	1	--	--
Walla Walla	4	2	--	2	--	--	3
Whitman	--	--	--	--	--	--	--
Total	29	21	1	3	1	--	3
Total, State	394	117	26	20	117	101	13

¹Each pulping process at a mulitplant location is counted as an individual mill.

²Represents the number of identifiable operations involved in the export trade.

Table D-2
Primary Wood Consumption

Economic area and industry	Roundwood				
	All roundwood	Sound logs	Utility logs	Other ¹	Residue ²
	--Thousand board feet, Scribner log rule--				Bone dry tons
Puget Sound					
Lumber	860,579	856,905	3,674	2,098	--
Veneer & plywood	77,935	70,002	7,933	--	--
Pulp	76,941	712	76,229	--	1,529,976
Shake & shingle	26,707	22,757	3,950	3,568	--
Export	690,025	690,025	--	--	--
Post, pole & piling	1,646	1,642	4	--	--
Total	1,733,833	1,642,043	91,790	5,666	1,529,976
Olympic Peninsula					
Lumber	814,599	711,576	103,023	--	--
Veneer & plywood	83,246	74,803	8,443	--	--
Pulp	247,111	74,031	173,080	--	1,205,945
Shake & shingle	57,661	56,858	803	11,481	--
Export	928,755	927,788	967	--	--
Post, pole & piling ³	10,417	10,417	--	--	--
Total	2,141,789	1,855,493	286,316	11,481	1,205,945
Lower Columbia					
Lumber	396,011	381,828	14,183	--	--
Veneer & plywood	75,502	67,614	7,888	--	--
Pulp ⁴	88,636	24,336	64,300	--	4,324,178
Shake & shingle ⁴	8,870	7,167	1,703	859	--
Export	549,156	549,156	--	--	--
Post, pole & piling ³	--	--	--	--	--
Total	1,118,175	1,030,101	88,074	859	4,324,178
Central Washington					
Lumber	295,018	290,216	4,802	--	--
Veneer & plywood ⁵	192,767	142,808	--	--	--
Pulp	--	--	--	--	--
Shake & shingle	--	--	--	--	--
Export	--	--	--	--	--
Post, pole & piling	--	--	--	--	--
Total	487,785	433,024	4,802	--	--
Inland Empire					
Lumber	367,167	362,073	5,094	--	--
Veneer & plywood ⁵	--	--	--	--	--
Pulp ⁴	--	--	--	--	--
Shake & shingle ⁴	--	--	--	--	--
Export	--	--	--	--	--
Post, pole & piling	8,700	260	8,440	--	--
Total	375,867	362,333	13,534	--	--
Total, State					
Lumber	2,733,374	2,602,598	130,776	2,098	--
Veneer & plywood	429,450	405,186	24,264	--	--
Pulp	412,688	99,079	313,609	--	7,060,099
Shake & shingle	93,238	86,782	6,456	15,908	--
Export	2,167,936	2,166,969	967	--	--
Post, pole & piling	20,763	12,319	8,444	--	--
Total	5,857,449	5,372,933	484,516	18,006	7,060,099

¹Includes peeler cores, lumber and cants used by sawmills (converted to log scale assuming 30 percent overrun), blocks, boards, bolts used by shake and shingle mills, and miscellaneous peeled products used by post, pole and piling mills.

²Includes residues from the sawmill, veneer and plywood, and shake and shingle industries plus chips from roundwood chipping plants, and wastepaper.

³Olympic Peninsula and Lower Columbia combined to avoid disclosure.

⁴Lower Columbia and Inland Empire combined to avoid disclosure.

⁵Central Washington and Inland Empire combined to avoid disclosure.

SUMMARY 1986

Table D-3
Log Use by Industry and Origin
(Thousand Board Feet, Scribner Log Rule)

Economic area and industry	Origin					
	All	Washington	Oregon	Idaho	British Columbia	Other
Puget Sound						
Lumber	860,579	858,046	--	--	2,533	--
Veneer & plywood	77,935	77,935	--	--	--	--
Pulp	76,941	74,097	--	--	2,844	--
Shake & shingle	26,707	26,530	--	--	177	--
Export	690,025	683,655	--	--	6,370	--
Post, pole & piling	1,646	1,630	--	--	16	--
Total	1,733,833	1,721,893	--	--	11,940	--
Olympic Peninsula						
Lumber	814,599	814,599	--	--	--	--
Veneer & plywood	83,246	82,217	1,029	--	--	--
Pulp	247,111	245,967	1,144	--	--	--
Shake & shingle	57,661	57,661	--	--	--	--
Export	928,755	928,755	--	--	--	--
Post, pole & piling ¹	10,417	9,407	1,005	--	5	--
Total	2,141,789	2,138,606	3,178	--	5	--
Lower Columbia						
Lumber	396,011	356,898	39,113	--	--	--
Veneer & plywood	75,502	57,025	17,527	950	--	--
Pulp ²	88,636	57,101	31,535	--	--	--
Shake & shingle ²	8,870	7,870	640	360	--	--
Export	549,156	497,736	51,260	160	--	--
Post, pole & piling	--	--	--	--	--	--
Total	1,118,175	976,630	140,075	1,470	--	--
Central Washington						
Lumber	295,018	294,921	--	--	97	--
Veneer & plywood ³	192,767	191,267	--	--	1,500	--
Pulp	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--
Total	487,785	486,188	--	--	1,597	--
Inland Empire						
Lumber	367,167	337,465	15,351	9,700	4,651	--
Veneer & plywood ³	--	--	--	--	--	--
Pulp ²	--	--	--	--	--	--
Shake & shingle ²	--	--	--	--	--	--
Export	--	--	--	--	--	--
Post, pole & piling	8,700	8,676	--	--	24	--
Total	375,867	346,141	15,351	9,700	4,675	--
Total, State						
Lumber	2,733,374	2,661,929	54,464	9,700	7,281	--
Veneer & plywood	429,450	408,444	18,556	950	1,500	--
Pulp	412,688	377,165	32,679	--	2,844	--
Shake & shingle	93,238	92,061	640	360	177	--
Export	2,167,936	2,110,146	51,260	160	6,370	--
Post, pole & piling	20,763	19,713	1,005	--	45	--
Total	5,857,449	5,669,458	158,604	11,170	18,217	--

¹Olympic Peninsula and Lower Columbia combined to avoid disclosure.

²Lower Columbia and Inland Empire combined to avoid disclosure.

³Central Washington and Inland Empire combined to avoid disclosure.

SUMMARY 1986

Table D-4
Log Consumption by County and Harvest Origin by County
(Thousand Board Feet, Scribner Log Rule)

Economic area and county of use	Total	Economic area and county of origin						
		Puget Sound						
		Island and San Juan ¹	King	Kitsap	Pierce	Skagit	Snohomish	Whatcom
Puget Sound								
Island/Kitsap/San Juan ¹	90,640	5,640	--	23,800	--	--	--	--
King	156,803	--	150,345	--	3,405	--	1,351	--
Pierce	627,778	--	97,292	40,443	175,274	--	47,881	--
Skagit	83,406	2,518	1,206	--	--	40,042	16,907	19,407
Snohomish	650,990	430	66,510	910	22,266	205,795	233,604	65,624
Whatcom	124,216	715	3,555	--	--	50,155	11,990	48,949
Total	1,733,833	9,303	318,908	65,153	200,945	295,992	311,733	134,180
Olympic Peninsula								
Clallam	594,767	--	3,368	--	--	--	5,048	--
Grays Harbor/Jefferson								
Pacific ¹	881,591	4,326	--	324	1,100	--	--	--
Lewis/Mason ¹	506,158	--	5,440	273	9,900	--	--	--
Thurston	158,760	--	--	1,519	17,362	173	173	173
Total	2,141,276	4,326	8,808	2,116	28,362	173	5,221	173
Lower Columbia								
Clark	119,288	--	--	--	--	--	--	--
Cowlitz	824,801	--	--	--	--	--	--	--
Klickitat/Skamania ¹	172,399	--	--	--	--	--	--	--
Wahkiakum	2,200	--	--	--	--	--	--	--
Total	1,118,688	--	--	--	--	--	--	--
Central Washington								
Chelan/Kittitas/ Okanogan ¹	229,548	--	2,550	--	5,100	--	3,825	--
Yakima	208,278	--	--	--	--	--	--	--
Total	437,826	--	2,550	--	5,100	--	3,825	--
Inland Empire								
Asotin/Walla Walla ¹	62,050	--	--	--	--	--	--	--
Ferry	65,320	--	--	--	--	--	--	--
Spokane/Stevens ¹	298,456	--	--	--	--	--	--	--
Total	425,826	--	--	--	--	--	--	--
Total, State	5,857,449	13,629	330,266	67,269	234,407	296,165	320,779	134,353

¹Combined to avoid disclosure.

Table D-4 (Continued)

**Log Consumption by County and Harvest Origin by County
(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of origin											
Olympic Peninsula											Lower Columbia
Clallam	Grays Harbor	Jefferson	Lewis	Mason	Pacific	Thurston	Clark	Cowlitz	Klickitat	Skamania	Makahaku
5,950	--	38,250	--	17,000	--	--	--	--	--	--	--
851	--	--	--	--	--	--	--	--	--	--	--
17,136	--	31,520	92,187	36,329	--	59,734	--	--	--	--	--
155	25	310	--	--	--	--	--	--	--	--	--
8,336	--	4,319	1,839	3,425	--	--	--	--	--	--	--
3,147	--	2,861	--	--	--	--	--	--	--	--	--
35,575	25	77,260	94,026	56,754	--	59,734	--	--	--	--	--
431,598	5,135	146,043	200	3,374	--	--	--	--	--	--	--
21,510	543,934	141,140	28,485	5,151	131,982	202	--	1,016	--	--	1,277
1,120	20,853	1,680	295,203	125,823	6,300	3,370	--	6,052	--	29,115	--
10	14,409	900	40,128	10,612	--	70,338	--	2,158	--	--	--
454,239	584,331	289,763	364,016	144,960	138,282	73,910	--	9,226	--	29,115	1,277
--	--	--	26,198	--	3,561	--	10,058	13,465	--	21,279	6,603
--	360	--	115,652	--	8,166	--	49,588	399,574	650	129,417	32,118
--	--	--	--	--	--	--	--	--	65,905	61,832	--
--	--	--	--	--	400	--	--	--	--	--	1,800
--	360	--	141,850	--	12,127	--	59,646	413,039	66,555	212,528	40,521
4,080	--	--	5,610	--	--	--	--	--	8,846	--	--
--	--	--	--	--	--	--	--	--	8,846	--	--
4,080	--	--	5,610	--	--	--	--	--	8,846	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--
493,894	584,716	367,023	605,502	201,714	150,409	133,644	59,646	422,265	75,401	241,643	41,798

SUMMARY 1986

Table D-4 (Continued)
Log Consumption by County and Harvest Origin by County
(Thousand Board Feet, Scribner Log Rule)

Economic area and county of use	Central Washington							Economic area and county of origin		
	Adams	Benton	Chelan	Douglas	Franklin	Grant	Kittitas	Lincoln	Okanogan	Yakima
Puget Sound										
Island/Kitsap/San Juan ¹	--	--	--	--	--	--	--	--	--	--
King	--	--	--	--	--	--	--	--	--	--
Pierce	--	--	--	--	--	--	851	--	--	--
Skagit	--	--	--	--	--	--	29,464	--	--	--
Snohomish	--	--	--	--	--	--	--	--	--	--
Whatcom	--	--	5,450	--	--	--	24,040	--	2,500	--
Total	--	--	5,450	--	--	--	54,355	--	2,500	--
Olympic Peninsula										
Cowlitz	--	--	--	--	--	--	--	--	--	--
Grays Harbor/Jefferson	--	--	--	--	--	--	--	--	--	--
Pacific ¹	--	--	--	--	--	--	--	--	--	--
Lewis/Mason ¹	--	--	--	--	--	--	--	--	--	--
Thurston	--	--	--	--	--	--	--	--	--	--
Total	--	--	--	--	--	--	--	--	--	--
Lower Columbia										
Clark	--	--	--	--	--	--	--	--	--	--
Cowlitz	--	--	--	--	--	--	--	--	--	--
Klickitat/Skamania ¹	--	--	--	--	--	--	--	--	--	--
Wahkiakum	--	--	--	--	--	--	--	--	30,312	--
Total	--	--	--	--	--	--	--	--	--	--
Central Washington										
Chelan/Kittitas/ Okanogan ¹	--	--	4,198	--	--	--	29,921	--	159,151	--
Yakima	--	--	--	--	--	--	66,870	--	--	132,562
Total	--	--	4,198	--	--	--	96,791	--	159,151	132,562
Inland Empire										
Asotin/Walla Walla ¹	--	3	--	--	2	--	--	--	--	--
Ferry	--	--	--	--	--	--	--	--	--	--
Spokane/Stevens ¹	--	--	--	--	--	--	--	--	3,490	--
Total	--	3	--	--	2	--	--	--	3,490	--
Total, State	--	3	9,648	--	2	--	151,146	--	165,141	162,874

¹ Combined to avoid disclosure.

SUMMARY 1986

Table D-4 (Continued)

**Log Consumption by County and Harvest Origin by County
(Thousand Board Feet, Scribner Log Rule)**

Economic area and county of origin									
Inland Empire									Out-of-state origin
Asotin	Columbia	Ferry	Garfield	Pend Oreille	Spokane	Stevens	Walla Walla	Whitman	
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	518
--	--	--	--	--	--	--	--	--	336
--	--	--	--	--	--	--	--	--	8,242
--	--	--	--	--	--	--	--	--	2,844
--	--	--	--	--	--	--	--	--	11,940
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	1,144
--	--	--	--	--	--	--	--	--	1,029
--	--	--	--	--	--	--	--	--	805
--	--	--	--	--	--	--	--	--	2,978
--	--	--	--	--	--	--	--	--	38,124
--	--	--	--	--	--	--	--	--	89,276
--	--	--	--	--	--	--	--	--	14,350
--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	141,750
--	--	13,516	--	--	--	--	--	--	1,597
--	--	13,516	--	--	--	--	--	--	1,597
7,590	3,780	--	28,560	--	--	--	14	--	22,101
--	--	55,254	--	--	--	1,925	--	--	4,651
--	--	63,563	--	69,836	6,135	155,948	--	--	2,974
7,590	3,780	118,817	28,560	69,836	6,135	157,873	14	--	29,726
7,590	3,780	132,333	28,560	69,836	6,135	157,873	14	--	187,991

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Table D-5
Log Use From National Forests
(Thousand Board Feet, Scribner Log Rule)

Economic area	All National Forests	Mount Baker Snoqualmie	Colville ¹	Gifford Pinchot	Okanogan	Olympic	Wenatchee	Umatilla	Out-of-State National Forests
Puget Sound	366,723	253,711	--	24,481	6,075	59,062	23,394	--	--
Olympic Peninsula	312,428	6,876	--	198,781	--	106,771	--	--	--
Lower Columbia	161,088	--	--	139,185	--	--	--	--	--
Central Washington	190,255	--	--	--	90,282	--	99,973	--	21,903
Inland Empire	129,064	--	94,758	--	12,326	--	--	21,980	--
Total Industry	1,159,558	260,587	94,758	362,447	108,683	165,833	123,367	21,980	21,903
Lumber	858,057	225,369	89,063	275,412	64,921	100,161	77,800	21,980	3,351
Veneer & plywood	204,708	9,252	5,495	50,083	43,762	36,149	45,567	--	14,400
Pulp	69,554	10,738	--	36,398	--	18,266	--	--	4,152
Shake & shingle	26,947	15,224	--	466	--	11,257	--	--	--
Export	--	--	--	--	--	--	--	--	--
Post, pole & piling	292	4	200	88	--	--	--	--	--
Total	1,159,558	260,587	94,758	362,447	108,683	165,833	123,367	21,980	21,903

¹Log harvests reported from the portion of the Kaniksu National Forest in Washington State are included in the Colville National Forest.

SUMMARY 1986

Table D-7
Log Consumption by Ownership
(Thousand Board Feet, Scribner Log Scale)

Economic area and industry	All Owners	State	National Forest ¹	Bureau of Land Management	Other public	Forest Industry		
						Own wood supply	Other wood supply	Farmer & misc. private
Puget Sound								
Lumber	860,579	133,476	311,190	170	6,071	161,680	162,966	85,026
Veneer & plywood	77,935	740	34,476	--	--	21,904	7,696	13,119
Pulp	76,941	7,112	5,689	--	--	--	48,718	15,422
Shake & shingle	26,707	5,253	15,364	--	304	500	4,094	1,192
Export	690,025	224,216	--	--	21,908	1,860	305,391	136,650
Post, pole & piling	1,646	437	4	--	--	--	1,038	167
Total	1,733,833	371,234	366,723	170	28,283	185,944	529,903	251,576
Olympic Peninsula								
Lumber	814,599	123,831	257,613	600	6,726	232,108	120,050	73,671
Veneer & plywood	83,246	5,090	19,965	1,029	--	33,537	11,495	12,130
Pulp ³	247,111	41,544	23,315	0	9,085	120,991	47,154	5,022
Shake & shingle	57,661	26,153	11,447	--	1,179	2,742	15,695	445
Export	928,755	211,652	--	--	46,955	204,799	370,556	94,793
Post, pole & piling ²	10,417	4,411	88	--	--	455	4,503	960
Total	2,141,789	412,681	312,428	1,629	63,945	594,632	569,453	187,021
Lower Columbia								
Lumber	396,011	30,282	64,959	--	6,729	159,964	89,100	44,977
Veneer & plywood	75,502	6,390	55,443	--	--	9,449	2,816	1,404
Pulp ³	88,636	3,459	40,550	--	--	--	25,189	19,438
Shake & shingle ³	8,870	364	136	--	60	200	8,110	--
Export	549,156	186,925	--	--	--	11,562	308,529	42,140
Post, pole & piling ²	--	--	--	--	--	--	--	--
Total	1,118,175	227,420	161,088	--	6,789	181,175	433,744	107,959
Central Washington								
Lumber	295,018	18,130	105,826	2,102	80,786	27,289	34,682	31,103
Veneer & plywood ⁴	192,767	10,812	94,824	2,093	15,313	36,678	--	33,047
Pulp	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--
Total	487,785	28,942	195,750	4,195	96,099	63,967	34,682	64,150
Inland Empire								
Lumber	367,167	27,215	123,369	581	21,679	61,046	5,631	127,646
Veneer & plywood ⁴	--	--	--	--	--	--	--	--
Pulp ³	--	--	--	--	--	--	--	--
Shake & shingle ³	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--
Post, pole & piling	8,700	200	200	--	7,500	--	200	600
Total	375,867	27,415	123,569	581	29,179	61,046	5,831	128,246
Total, State								
Lumber	2,733,374	332,934	858,057	3,453	121,991	642,087	412,429	362,423
Veneer & plywood	429,450	23,032	204,708	3,122	15,313	101,568	22,007	59,700
Pulp	412,688	52,115	69,554	0	9,085	120,991	121,061	39,882
Shake & shingle	93,238	31,770	26,947	0	1,543	3,442	27,899	1,637
Export	2,167,936	622,793	0	0	68,863	218,221	984,476	273,583
Post, pole & piling	20,763	5,048	292	0	7,500	455	5,741	1,727
Total	5,857,449	1,067,692	1,159,558	6,575	224,295	1,086,764	1,573,613	738,952

¹National Forest includes Canadian and British Columbia provincial forests.

²Lower Columbia combined with Olympic Peninsula to avoid disclosure.

³Inland Empire combined with Lower Columbia to avoid disclosure.

⁴Inland Empire combined with Central Washington to avoid disclosure.

SUMMARY 1986

**Table D-8
Log Consumption by Species
(Thousand Board Feet, Scribner Log Rule)**

Economic area and industry	All Species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound										
Lumber	860,579	413,599	261,392	19,285	100	--	--	90,946	14,423	60,834
Veneer & plywood	77,935	30,033	34,578	--	--	--	--	--	--	13,324
Pulp	76,941	--	35,557	35,556	--	--	--	--	--	5,828
Shake & shingle	26,707	--	--	--	--	--	--	26,087	620	--
Export	690,025	463,960	184,099	26,008	3,384	280	144	6,320	3,776	2,054
Post, pole & piling	1,646	895	--	--	--	--	--	751	--	--
Total	1,733,833	908,487	515,626	80,849	3,484	280	144	124,104	18,819	82,040
Olympic Peninsula										
Lumber	814,599	366,951	308,562	21,121	2,055	--	1,304	55,507	--	59,099
Veneer & plywood	83,246	61,085	12,383	6,184	--	--	--	3,594	--	--
Pulp	247,111	21,624	177,531	43,414	4,542	--	--	--	--	--
Shake & shingle	57,661	--	--	--	--	--	--	57,661	--	--
Export	928,755	215,288	617,662	10,608	25,633	--	141	56,759	2,618	46
Post, pole & piling ¹	10,417	10,272	--	--	--	--	--	115	--	--
Total	2,141,789	675,220	1,116,138	81,327	32,230	--	1,445	173,636	2,618	59,145
Lower Columbia										
Lumber	396,011	215,907	26,499	9,101	--	61,110	--	1,406	--	82,010
Veneer & plywood	75,502	49,976	16,494	9,032	--	--	--	--	--	--
Pulp ²	88,636	21,373	51,380	--	486	--	--	--	--	15,397
Shake & shingle ²	8,870	--	--	--	--	--	--	8,870	--	--
Export	549,156	455,429	75,881	10,414	2,989	--	--	3,584	859	--
Post, pole & piling ¹	--	--	--	--	--	--	--	--	--	--
Total	1,118,175	742,685	170,232	28,547	3,475	61,110	--	13,860	859	97,407
Central Washington										
Lumber	295,018	49,571	23,205	23,117	4,888	178,867	4,846	--	10,524	--
Veneer & plywood ³	192,767	151,642	4,349	17,310	1,221	--	--	--	16,745	1,500
Pulp	--	--	--	--	--	--	--	--	--	--
Shake & shingle	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	--	--	--	--	--	--	--	--	--	--
Total	487,785	201,213	27,554	40,427	6,109	178,867	4,846	--	27,269	1,500
Inland Empire										
Lumber	367,167	152,664	24,015	10,272	16,177	99,737	35,578	10,918	17,786	20
Veneer & plywood ³	--	--	--	--	--	--	--	--	--	--
Pulp ²	--	--	--	--	--	--	--	--	--	--
Shake & shingle ²	--	--	--	--	--	--	--	--	--	--
Export	--	--	--	--	--	--	--	--	--	--
Post, pole & piling	8,700	--	--	--	--	--	8,700	--	--	--
Total	375,867	152,664	24,015	10,272	16,177	99,737	44,278	10,918	17,786	20
Total, State										
Lumber	2,733,374	1,198,692	643,651	82,896	23,220	339,714	41,728	158,777	42,733	201,963
Veneer & plywood	429,450	292,736	67,804	32,526	1,221	--	--	3,594	16,745	14,824
Pulp	412,688	42,997	264,468	78,970	5,028	--	--	--	--	21,225
Shake & shingle	93,238	--	--	--	--	--	--	92,618	620	--
Export	2,167,936	1,134,677	877,642	47,030	32,006	280	285	66,663	7,253	2,100
Post, pole & piling	20,763	11,167	--	--	--	--	--	8,700	896	--
Total	5,857,449	2,680,269	1,853,565	241,422	61,475	339,994	50,713	322,548	67,351	240,112

¹Olympic Peninsula and Lower Columbia combined to avoid disclosure.

²Lower Columbia and Inland Empire combined to avoid disclosure.

³Central Washington and Inland Empire combined to avoid disclosure.

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Table D-9
Production and Disposition of Wood and Bark Residues
(Tons, Dry Weight)

Economic area and residue-producing industry	Wood Residue						
	Used ¹						
	All residues	All wood	Total	Pulp & board	Fuel	Other	Unused
Puget Sound							
Lumber	1,379,524	1,076,231	1,050,786	219,548	576,400	254,838	25,445
Veneer & plywood	169,558	140,172	140,172	30,157	101,493	8,522	--
Shake & shingle	29,338	20,455	11,322	--	6,448	4,874	9,133
Other ²	38,796	--	--	--	--	--	--
Total	1,617,216	1,236,858	1,202,280	249,705	684,341	268,234	34,578
Olympic Peninsula							
Lumber	1,385,899	1,080,496	1,058,163	386,525	496,359	175,279	22,333
Veneer & plywood	182,696	151,860	151,860	42,096	83,031	26,733	--
Shake & shingle	59,405	42,395	19,638	233	11,305	8,100	22,757
Other ²	43,499	--	--	--	--	--	--
Total	1,671,499	1,274,751	1,229,661	428,854	590,695	210,112	45,090
Lower Columbia							
Lumber	706,943	550,365	550,365	239,102	311,042	221	--
Veneer & plywood	161,756	130,038	130,038	65,363	44,894	19,781	--
Shake & shingle ³	9,743	7,233	7,203	--	6,119	1,084	30
Other ²	61,020	--	--	--	--	--	--
Total	939,462	687,603	687,574	304,465	362,055	21,086	30
Central Washington							
Lumber	494,547	389,316	385,103	153,413	123,273	108,417	4,213
Veneer & plywood ⁴	367,110	290,628	288,192	134,416	132,935	20,841	2,436
Shake & shingle	--	--	--	--	--	--	--
Other ²	--	--	--	--	--	--	--
Total	861,657	679,944	673,295	287,829	256,208	129,258	6,649
Inland Empire							
Lumber	641,032	503,406	502,464	95,078	151,069	256,317	942
Veneer & plywood ⁴	--	--	--	--	--	--	--
Shake & shingle ³	--	--	--	--	--	--	--
Other ²	2,697	--	--	--	--	--	--
Total	643,729	503,406	502,464	95,078	151,069	256,317	942
Total, State							
Lumber	4,607,945	3,599,814	3,546,881	1,093,666	1,658,143	795,072	52,933
Veneer & plywood	881,120	712,698	710,262	272,032	362,353	75,877	2,436
Shake & shingle	98,486	70,083	38,163	233	23,872	14,058	31,920
Other ²	145,923	--	--	--	--	--	--
Total	5,733,474	4,382,595	4,295,306	1,365,931	2,044,368	885,007	87,289

¹Used residues were not necessarily consumed in the economic area in which they were produced.

²Other includes log export, and post, pole and piling operations.

³Inland Empire combined with Lower Columbia to avoid disclosure.

⁴Inland Empire combined with Central Washington to avoid disclosure.

SUMMARY 1986

Table D-9 (Continued)
Production and Disposition of Wood and Bark Residues
(Thousand Board Feet, Scribner Log Rule)

Bark Residue					
Used ¹					
All bark	Total	Pulp & board	Fuel	Other	Unused
303,293	289,240	--	181,740	107,500	14,053
29,386	29,386	--	19,639	9,747	0
8,883	4,761	--	4,085	676	4,122
38,796	38,775	--	31,077	7,698	21
380,358	362,162	--	236,541	125,621	18,196
305,403	293,223	--	223,227	69,996	12,180
30,836	30,836	--	16,722	14,114	--
17,010	8,407	101	4,858	3,448	8,603
43,410	43,269	--	43,358	--	141
396,659	375,735	101	288,165	87,558	20,924
156,578	156,578	17,680	138,827	71	--
31,718	31,718	--	31,718	--	--
2,510	2,492	--	2,199	293	18
61,020	61,020	--	60,276	744	--
251,826	251,808	17,680	233,020	1,108	18
105,231	101,540	--	70,405	31,135	3,691
76,482	75,690	--	65,522	10,168	792
--	--	--	--	--	--
--	--	--	--	--	--
181,713	177,230	--	135,927	41,303	4,483
137,626	137,412	--	70,354	67,058	214
--	--	--	--	--	--
--	--	--	--	--	--
2,697	124	--	--	124	2,573
140,323	137,536	--	70,354	67,182	2,787
1,008,131	977,993	17,680	684,553	275,760	30,138
168,422	167,630	--	133,601	34,029	792
28,403	15,660	101	11,142	4,417	12,743
145,923	143,188	--	134,622	8,566	2,735
1,350,879	1,304,471	17,781	963,918	322,772	46,408

SUMMARY 1986

Table D-10
Log Consumption by Timber Age
(Thousand Board Feet, Scribner Log Scale)

Economic area and industry	All age groups	Old growth (100+ years)	Young growth (Less than 100 years)
Puget Sound			
Lumber	860,579	225,763	634,816
Veneer & plywood	77,935	29,918	48,017
Pulp	76,941	32,001	44,940
Shake & shingle	26,707	26,582	125
Export	690,025	288,749	401,276
Post, pole & piling	1,646	4	1,642
Total	1,733,833	603,017	1,130,816
Olympic Peninsula			
Lumber	814,599	278,005	536,594
Veneer & plywood	83,246	29,477	53,769
Pulp	247,111	50,818	196,293
Shake & shingle	57,661	56,231	1,430
Export	928,755	187,759	740,996
Post, pole & piling ¹	10,417	--	10,417
Total	2,141,789	602,290	1,539,499
Lower Columbia			
Lumber	396,011	109,773	286,238
Veneer & plywood	75,502	52,034	23,468
Pulp ²	88,636	64,848	23,788
Shake & shingle ²	8,870	8,250	620
Export	549,156	286,384	262,772
Post, pole & piling ¹	--	--	--
Total	1,118,175	521,289	597,886
Central Washington			
Lumber	295,018	182,194	112,824
Veneer & plywood ³	192,767	131,251	61,516
Pulp	--	--	--
Shake & shingle	--	--	--
Export	--	--	--
Post, pole & piling	--	--	--
Total	487,785	313,445	174,340
Inland Empire			
Lumber	367,167	174,339	192,828
Veneer & plywood ³	--	--	--
Pulp ²	--	--	--
Shake & shingle ²	--	--	--
Export	--	--	--
Post, pole & piling	8,700	400	8,300
Total	375,867	174,739	201,128
Total, State			
Lumber	2,733,374	970,074	1,763,300
Veneer & plywood	429,450	242,680	186,770
Pulp	412,688	147,667	265,021
Shake & shingle	93,238	91,063	2,175
Export	2,167,936	762,892	1,405,044
Post, pole & piling	20,763	404	20,359
Total	5,857,449	2,214,780	3,642,669

¹Lower Columbia combined with Olympic Peninsula to avoid disclosure.

²Inland Empire combined with Lower Columbia to avoid disclosure.

³Inland Empire combined with Central Washington to avoid disclosure.

SAWMILLS 1986

Table D-11
Number of Sawmills by Mill Size-Class

Economic area and county	All classes	Mill size-class ¹			
		D	C	B	A
Puget Sound					
Island	1	--	1	--	--
King	8	4	1	--	3
Kitsap	1	--	--	--	1
Pierce	5	--	--	1	4
San Juan	1	1	--	--	--
Skagit	3	1	1	--	1
Snohomish	18	6	6	1	5
Whatcom	3	2	1	--	--
Total	40	14	10	2	14
Olympic Peninsula					
Clallam	8	7	--	--	1
Grays Harbor	7	2	1	--	4
Jefferson	2	1	1	--	--
Lewis	8	3	1	--	4
Mason	4	1	1	--	2
Pacific	1	--	--	--	1
Thurston	3	1	--	--	2
Total	33	15	4	--	14
Lower Columbia					
Clark	4	3	--	--	1
Cowlitz	5	1	2	--	2
Klickitat	4	--	--	4	--
Skamania	1	--	--	--	1
Wahkiakum	--	--	--	--	--
Total	14	4	2	4	4
Central Washington					
Chelan	1	--	--	1	--
Okanogan	4	1	1	1	1
Yakima	4	--	--	1	3
Total	9	1	1	3	4
Inland Empire					
Asotin	2	1	--	1	--
Columbia	--	--	--	--	--
Ferry	3	1	1	--	1
Pend Oreille	--	--	--	--	--
Spokane	2	2	--	--	--
Stevens	12	4	2	2	4
Walla Walla	2	1	--	1	--
Total	21	9	3	4	5
Total, State	117	43	20	13	41

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

SAWMILLS 1986

**Table D-12
Installed Eight-Hour Single-Shift Capacity, Daily Basis
(Thousand Board Feet, Lumber Tally)**

Economic area and county	Total capacity	Mill size-class ¹			
		D	C	B	A
Puget Sound					
Island	40	--	40	--	--
King	652	22	45	--	585
Kitsap	400	--	--	--	400
Fierce	910	--	--	110	800
San Juan	5	5	--	--	--
Skagit	255	15	40	--	200
Snohomish	1,365	85	355	100	825
Whatcom	78	3	75	--	--
Total	3,705	130	555	210	2,810
Olympic Peninsula					
Clallam	211	71	--	--	140
Grays Harbor	888	18	40	--	830
Jefferson	92	17	75	--	--
Lewis	1,041	21	70	--	950
Mason	605	20	75	--	510
Pacific	210	--	--	--	210
Thurston	293	3	--	--	290
Total	3,340	150	260	--	2,930
Lower Columbia					
Clark	186	26	--	--	160
Cowlitz	981	14	135	--	832
Klickitat	370	--	--	370	--
Skamania	125	--	--	--	125
Wahkiakum	--	--	--	--	--
Total	1,662	40	135	370	1,117
Central Washington					
Chelan	100	--	--	100	--
Okanogan	363	3	60	100	200
Yakima	540	--	--	80	460
Total	1,003	3	60	280	660
Inland Empire					
Asotin	104	4	--	100	--
Columbia	--	--	--	--	--
Ferry	260	10	50	--	200
Pend Oreille	--	--	--	--	--
Spokane	10	10	--	--	--
Stevens	985	56	100	176	653
Walla Walla	109	4	--	105	--
Total	1,468	84	150	381	853
Total, State	11,178	407	1,160	1,241	8,370

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

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Table D-13
Number of Sawmills
with Selected Equipment by Mill Size-Class¹

Economic area and mill size-class	Barker	Chipper	Planer	Burner	Kiln
Puget Sound					
D	3	2	9	1	1
C	9	8	7	2	3
B	2	2	1	--	1
A	14	14	14	--	7
Total	28	26	31	3	12
Olympic Peninsula					
D	2	4	7	1	3
C	3	4	2	--	1
B	--	--	--	--	--
A	14	14	13	2	8
Total	19	22	22	3	12
Lower Columbia					
D	1	1	3	--	2
C	2	2	2	--	1
B	4	3	3	--	3
A	3	3	2	--	1
Total	10	9	10	--	7
Central Washington					
D	--	--	--	--	--
C	1	1	1	1	--
B	3	3	3	--	3
A	4	4	3	--	3
Total	8	8	7	1	6
Inland Empire					
D	1	--	6	1	1
C	3	3	3	--	1
B	4	4	3	--	3
A	5	5	5	3	5
Total	13	12	17	4	10
Total, State					
D	7	7	25	3	7
C	18	18	15	3	6
B	13	12	10	--	10
A	40	40	37	5	24
Total	78	77	87	11	47

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

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Table D-14
Number of Sawmills
with Selected Equipment by County

Economic area and county	Barker	Chipper	Planer	Burner	Kiln
Puget Sound					
Island	1	1	1	1	--
King	3	4	5	--	2
Kitsap	1	1	1	--	--
Pierce	5	5	4	--	--
San Juan	--	--	1	--	1
Skagit	2	2	2	1	--
Snohomish	15	12	15	1	1
Whatcom	1	1	2	--	7
Total	28	26	31	3	12
Olympic Peninsula					
Clallam	1	1	4	1	1
Grays Harbor	4	5	4	1	2
Jefferson	1	2	1	--	1
Lewis	6	7	8	1	5
Mason	4	4	2	--	2
Pacific	1	1	1	--	1
Thurston	2	2	2	--	--
Total	19	22	22	3	12
Lower Columbia					
Clark	1	1	3	--	1
Cowlitz	4	4	3	--	2
Klickitat	4	3	3	--	3
Skamania	1	1	1	--	1
Wahkiakum	--	--	--	--	--
Total	11	9	10	--	7
Central Washington					
Chelan	1	1	1	--	1
Okanogan	3	3	3	1	2
Yakima	4	4	3	--	3
Total	8	8	7	1	6
Inland Empire					
Asotin	1	1	1	--	1
Columbia	--	--	--	--	--
Ferry	2	2	3	--	2
Pend Oreille	--	--	--	--	--
Spokane	--	--	1	--	--
Stevens	9	8	10	4	6
Walla Walla	1	1	2	--	1
Total	13	12	17	4	10
Total, State	78	77	87	11	47

Table D-15
Number of Sawmills by Headrig Type and Size

Economic area and mill size- class ¹	Circular saw				Band saw				Gang saw	Chipping saw	Scragg
	2 ft.	4 ft.	6 ft.	8@ ft.	4 ft.	6 ft.	8 ft.	8@ ft.	2 ft.	2 ft.	2 ft.
Puget Sound											
D	--	11	1	1	1	--	--	--	--	--	--
C	--	1	--	--	7	2	--	--	--	--	--
B	--	1	--	--	--	1	--	--	--	1	1
A	--	--	--	--	8	5	1	--	--	3	1
Total	--	13	1	1	16	8	1	--	--	4	2
Olympic Peninsula											
D	--	6	3	5	2	--	--	--	--	1	1
C	--	1	--	--	1	2	--	--	--	--	--
B	--	--	--	--	--	--	--	--	--	--	--
A	--	--	--	--	5	4	1	1	--	5	1
Total	--	7	3	5	8	6	1	1	--	6	2
Lower Columbia											
D	--	3	--	--	--	1	--	--	--	--	--
C	--	--	--	--	1	1	--	--	--	--	--
B	--	--	--	--	2	2	--	--	--	--	1
A	--	--	--	--	2	1	1	--	1	1	--
Total	--	3	--	--	5	5	1	--	1	1	1
Central Washington											
D	--	--	1	--	--	--	--	--	--	--	--
C	--	--	--	--	1	--	--	--	--	--	--
B	--	--	--	--	1	2	--	--	--	--	--
A	--	--	--	--	--	3	--	--	--	1	--
Total	--	--	1	--	2	5	--	--	--	1	--
Inland Empire											
D	1	7	--	--	--	1	--	--	--	--	--
C	--	3	--	--	--	--	--	--	--	--	1
B	--	--	--	--	2	2	--	--	--	--	--
A	--	2	--	--	5	--	--	--	--	--	1
Total	1	12	--	--	7	3	--	--	--	--	2
Total, State											
D	1	27	5	6	3	2	--	--	--	1	1
C	--	5	--	--	10	5	--	--	--	--	1
B	--	1	--	--	5	7	--	--	--	1	2
A	--	2	--	--	20	13	3	1	1	10	3
Total	1	35	5	6	38	27	3	1	1	12	7

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

Note: Sizes of headrigs are upper limits. Thus, the 6-foot size class includes saws 49 through 72 inches.

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Table D-16
Number of Sawmills by Tenure
of Present Ownership by Site Occupancy

Present mill size-class ¹	Site occupancy (years)	All mills	Tenure of present mill ownership (years)				
			0-2	3-5	6-10	11-20	21+
D	0-2	--	--	--	--	--	--
	3-5	1	--	1	--	--	--
	6-10	7	--	--	7	--	--
	11-20	13	--	--	1	12	--
	21+	22	1	3	2	3	13
	Total	43	1	4	10	15	13
C	0-2	1	1	--	--	--	--
	3-5	1	--	1	--	--	--
	6-10	3	2	--	1	--	--
	11-20	2	--	--	--	1	1
	21+	13	--	1	2	3	7
	Total	20	3	2	3	4	8
B	0-2	1	1	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	--	--	--	--	--	--
	11-20	2	--	--	--	2	--
	21+	10	1	--	1	4	4
	Total	13	2	--	1	6	4
A	0-2	--	--	--	--	--	--
	3-5	--	--	--	--	--	--
	6-10	5	--	--	5	--	--
	11-20	8	--	--	1	6	1
	21+	28	4	6	1	--	17
	Total	41	4	6	7	6	18
Total, State	0-2	2	2	--	--	--	--
	3-5	2	--	2	--	--	--
	6-10	15	2	--	13	--	--
	11-20	25	--	--	2	21	2
	21+	73	6	10	6	10	41
	Total	117	10	12	21	31	43

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

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Table D-17
Average Number of Operating Days

Economic area and mill size- class ¹	Average number of operating days per year	Economic area and mill size- class ¹	Average number of operating days per year
Puget Sound		Central Washington	
D	145	D ²	209
C ³	231	A	252
A	241		
Average	203	Average	232
Olympic Peninsula		Inland Empire	
D	186	D	82
C	238	C	233
A	236	B	239
Average	213	A	243
Lower Columbia		State	
D ⁴	145	D	141
B	237	C	231
A	195	B	241
Average	185	A	236
		Average	201

¹Mill size-classes are identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Size-class D includes Size-class C and B for Central Washington.

³Size-class C includes Size-class B for Puget Sound.

⁴Size-class D included Size-class C for Lower Columbia.

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Table D-18
Type of Wood Consumed
(Thousand Board Feet)

Economic area and mill size- class ¹	Roundwood			Other	
	All roundwood	Sound logs	Utility logs	Peeler cores	Cants
Puget Sound				---Lumber tally---	
D	14,513	14,424	89	--	50
C & B ²	144,720	143,947	773	--	48
A	701,346	698,534	2,812	--	2,000
Total	860,579	856,905	3,674	--	2,098
Olympic Peninsula					
D	59,512	58,675	837	--	--
C	54,000	40,420	13,580	--	--
A	701,087	612,481	88,606	--	--
Total	814,599	711,576	103,023	--	--
Lower Columbia					
D & C ²	94,255	94,064	191	--	--
B	107,273	105,994	1,279	--	--
A	194,486	181,770	12,713	--	--
Total	396,011	381,828	14,183	--	--
Central Washington					
D, C & B ²	94,107	89,305	4,802	--	--
A	200,911	200,911	--	--	--
Total	295,018	290,216	4,802	--	--
Inland Empire					
D	1,151	1,058	93	--	--
C	23,200	22,850	350	--	--
B	116,298	116,298	--	--	--
A	226,518	221,867	4,651	--	--
Total	367,167	362,073	5,094	--	--
Total, State					
D ^{3,4}	263,538	257,526	6,012	--	50
C ⁵	221,920	207,217	14,703	--	48
B	223,571	222,292	1,279	--	--
A	2,024,345	1,915,563	108,782	--	2,000
Total	2,733,374	2,602,598	130,776	0	2,098

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

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Table D-19
Age of Logs Consumed by Mill Size-Class
(Thousand Board Feet, Scribner Log Rule)

Economic area and mill size-class ¹	All age groups	Young growth	
		Old growth (100+ years)	(less than 100 years)
Puget Sound			
D	14,513	197	14,316
C & B ²	144,720	31,036	113,684
A	701,346	194,530	506,816
Total	860,579	225,763	634,816
Olympic Peninsula			
D	59,512	10,375	49,137
C	54,000	35,830	18,170
A	701,087	231,800	469,287
Total	814,599	278,005	536,594
Lower Columbia			
D & C ²	94,255	5,200	89,055
B	107,273	58,025	49,248
A	194,483	56,548	147,935
Total	396,011	109,773	286,238
Central Washington			
D, C & B ²	94,107	56,695	37,412
A	200,911	125,499	75,412
Total	295,018	182,194	112,824
Inland Empire			
D	1,151	405	746
C	23,200	4,550	18,650
B	116,298	81,739	34,559
A	226,518	87,645	138,873
Total	367,167	174,339	192,828
Total, State			
D ^{3,4}	263,538	72,872	153,254
C ⁵	221,920	71,416	150,504
B	223,571	139,764	83,807
A	2,024,345	686,022	1,338,323
Total	2,733,374	970,074	1,763,300

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

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Table D-20
Age of Logs Consumed by County
(Thousand Board Feet, Scribner Log Rule)

Economic area and county	All age groups	Old growth (100+ years)	Young growth (less than 100 years)
Puget Sound			
Island/Kitsap/San Juan ¹	90,640	--	90,640
King	129,419	30,272	99,147
Pierce	235,136	34,715	200,421
Skagit	60,670	12,584	48,086
Snohomish	327,382	146,467	180,915
Whatcom	17,332	1,725	15,607
Total	860,579	225,763	634,816
Olympic Peninsula			
Clallam	42,029	22,205	19,824
Grays Harbor/Jefferson/ Pacific ¹	269,511	77,987	191,524
Lewis	329,550	176,313	153,237
Mason	116,449	--	116,449
Thurston	57,060	1,500	55,560
Total	814,599	278,005	536,594
Lower Columbia			
Clark	35,255	--	35,255
Cowlitz	237,133	50,930	186,203
Klickitat/Skamania ¹	123,623	58,843	64,780
Total	396,011	109,773	286,238
Central Washington			
Chelan/Okanogan ¹	132,188	80,152	52,036
Yakima	162,830	102,042	60,788
Total	295,018	182,194	112,824
Inland Empire			
Asotin/Walla Walla ¹	62,050	38,336	23,714
Ferry	65,320	59,222	6,098
Spokane/Stevens ¹	239,797	76,781	163,016
Total	367,167	174,339	192,828
Total, State	2,733,374	970,074	1,763,300

¹Combined to avoid disclosure.

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Table D-21
Log Inventory Changes, Log Consumption,
and Apparent Log Receipts
(Thousand Board Feet, Scribner Log Rule)

Economic area	Log inventory			1986 Log consumption	Apparent 1986 log receipts
	January 1, 1986	December 31, 1986	Net change		
Puget Sound	84,074	96,675	12,061	860,579	873,180
Olympic Peninsula	124,211	106,264	-17,947	814,599	796,652
Lower Columbia	33,421	43,760	10,339	396,011	406,350
Central Washington	78,326	66,597	-11,729	295,018	283,289
Inland Empire	49,376	48,692	- 684	367,167	366,483
Total, State	369,408	361,988	- 7,420	2,733,374	2,725,954

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Table D-22
Ownership Origin of Logs Consumed by Mill Size
(Thousand Board Feet, Scribner Log Rule)

Economic area and mill size- class ¹	All owners	State	National Forest	Bureau of Land Management	Forest industry			Farmer and miscellaneous private
					Other public	Own wood supply	Other wood supply	
Puget Sound								
D	14,513	1,213	300	--	378	--	890	11,732
C & B ²	144,720	27,228	39,009	--	3,493	8,704	46,092	20,194
A	701,346	105,035	271,881	170	2,200	152,976	115,984	53,100
Total	860,579	133,476	311,190	170	6,071	161,680	162,966	85,026
Olympic Peninsula								
D	59,512	13,479	4,623	--	125	10,500	19,684	11,101
C	54,000	20,540	17,690	--	248	--	11,180	4,342
A	701,087	89,812	235,300	600	6,353	221,608	89,186	58,228
Total	814,599	123,831	257,613	600	6,726	232,108	120,050	73,671
Lower Columbia								
D & C ²	94,255	11,200	--	--	--	9,000	67,820	6,235
B	107,273	14,342	25,598	--	6,729	46,531	6,094	7,979
A	194,483	4,740	39,361	--	--	104,433	15,186	30,763
Total	396,011	30,282	64,959	--	6,729	159,964	89,100	44,977
Central Washington								
D, C & B ²	94,107	636	8,006	--	52,819	--	16,260	16,386
A	200,911	17,494	92,920	2,102	27,967	27,289	18,422	14,717
Total	295,018	18,130	100,926	2,102	80,786	27,289	34,682	31,103
Inland Empire								
D	1,151	30	320	--	--	--	4	797
C	23,200	--	5,950	--	350	4,900	--	12,000
B	116,298	2,718	27,952	--	3,800	33,726	--	48,102
A	226,518	24,467	89,147	581	17,529	22,420	5,627	66,747
Total	367,167	27,215	123,369	581	21,679	61,046	5,631	127,646
Total, State								
D ^{3,4}	263,538	26,558	13,249	--	53,322	19,500	104,658	46,251
C ⁵	221,920	47,768	62,649	--	4,091	13,604	57,272	36,536
B	223,571	17,060	53,550	--	10,529	80,257	6,094	56,081
A	2,024,345	241,548	728,609	3,453	54,049	528,726	244,405	223,555
Total	2,733,374	332,934	858,057	3,453	121,991	642,087	412,429	362,423

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

Table D-2:
Ownership Origin of Logs Consumed by County
(Thousand Board Feet, Scribner Log Rule)

Economic area and county	Forest industry								Farmer an misc. private
	All owners	State	National Forest	Land Management	Other public	Own wood supply	Other wood supply		
Puget Sound									
Island/Kitsap/San Juan ¹	90,640	42,500	--	--	--	24,454	23,386	30	
King	129,419	172	25,745	170	--	86,238	16,507	58	
Pierce	235,136	6,443	107,535	--	251	33,088	44,682	43,1	
Skagit	60,670	26,918	10,000	--	583	900	15,084	7,1	
Snohomish	327,382	53,993	165,324	--	4,375	17,000	56,411	30,2	
Whatcom	17,332	3,450	2,586	--	862	--	6,896	3,5	
Total	860,579	133,476	311,190	170	6,071	161,680	162,966	85,0	
Olympic Peninsula									
Clallam	42,029	14,461	17,327	600	--	--	600	9,0	
Grays Harbor/Jefferson/ Pacific ¹	269,511	60,607	47,281	--	2,128	109,596	46,554	3,3	
Lewis	329,550	33,543	190,765	--	248	23,820	48,480	32,6	
Mason	116,449	1,120	2,240	--	--	98,692	6,416	7,9	
Thurston	57,060	14,100	--	--	4,350	--	18,000	20,6	
Total	814,599	123,831	257,613	600	6,726	232,108	120,050	73,6	
Lower Columbia									
Clark	35,255	--	22,750	--	--	--	20	12,4	
Cowlitz	237,133	15,940	1,896	--	--	111,798	82,986	24,5	
Klickitat/Skamania ¹	123,623	14,342	40,313	--	6,729	48,166	6,094	7,9	
Total	396,011	30,282	64,959	--	6,729	159,964	89,100	44,5	
Central Washington									
Chelan/Okanogan ¹	132,188	6,244	47,417	2,102	27,219	2,803	15,300	31,1	
Yakima	162,830	11,086	53,509	--	53,567	24,486	19,382		
Total	295,018	18,130	100,926	2,102	80,786	27,289	34,682	31,	
Inland Empire									
Asotin/Walla Walla ¹	62,050	--	21,980	--	--	8,750	4	31,	
Ferry	65,320	583	36,066	581	11,979	--	--	16,	
Spokane/Stevens ¹	239,797	26,632	65,323	--	9,700	52,296	5,627	80,	
Total	367,167	27,215	123,369	581	21,679	61,046	5,631	127,	
Total, State	2,733,374	332,934	858,057	3,453	121,991	642,087	412,429	362,	

¹Combined to avoid disclosure.

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Table D-24
Number of Mills Dependent Upon Ownerships

Economic area and mill size-class ¹	National Forest				State				Bureau of Land Management			
	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
Puget Sound												
D	13	1	--	--	11	3	--	--	14	--	--	--
C & B ²	3	3	1	5	4	5	1	2	12	--	--	--
A	4	4	2	4	5	7	2	--	13	1	--	--
Total	20	8	3	9	20	15	3	2	39	1	--	--
Olympic Peninsula												
D	7	3	1	4	9	5	--	1	15	--	--	--
C	--	2	1	1	--	3	--	1	4	--	--	--
A	7	1	3	3	5	8	--	1	13	1	--	--
Total	14	6	5	8	14	16	--	3	32	1	--	--
Lower Columbia												
D & C ²	6	--	--	--	3	3	--	--	6	--	--	--
B	1	1	1	1	1	3	--	--	4	--	--	--
A	1	1	1	1	3	1	--	--	4	--	--	--
Total	8	2	2	2	7	7	--	--	14	--	--	--
Central Washington												
D, C & B ²	1	4	--	--	3	2	--	--	5	--	--	--
A	--	--	4	--	--	4	--	--	3	1	--	--
Total	1	4	4	--	3	6	--	--	8	1	--	--
Inland Empire												
D	8	--	--	1	8	1	--	--	9	--	--	--
C	1	1	--	1	3	--	--	--	3	--	--	--
B	--	3	1	--	2	2	--	--	4	--	--	--
A	--	2	2	1	1	3	1	--	4	1	--	--
Total	9	6	3	3	14	6	1	--	20	1	--	--
Total State												
D ^{3,4}	35	8	1	5	34	14	--	1	49	--	--	--
C ⁵	4	6	2	7	7	8	1	3	19	--	--	--
B	1	4	2	1	3	5	--	--	8	--	--	--
A	12	8	12	9	14	23	3	1	37	4	--	--
Total	52	26	17	22	58	50	4	5	113	4	--	--

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+

²Combined to avoid disclosure

³Total for Class D includes Class C for Lower Columbia

⁴Total for Class D includes Class C and Class B for Central Washington

⁵Total for Class C includes Class B for Puget Sound

Table D-24 (Continued)
Number of Mills Dependent Upon Ownership

Other public				Forest industry						Farmer & miscellaneous private					
				Own wood supply			Other wood supply								
0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100	0	1-33	34-66	67-100
11	3	--	--	14	--	--	--	10	1	1	2	1	1	1	11
8	4	--	--	9	2	1	--	6	2	4	--	5	6	1	--
12	2	--	--	7	4	--	3	5	7	2	--	10	3	--	1
31	9	--	--	30	6	1	3	21	10	7	2	16	10	2	12
14	1	--	--	14	1	--	--	10	1	4	--	4	3	3	5
3	1	--	--	4	--	--	--	2	--	2	--	--	4	--	--
10	4	--	--	9	1	1	3	7	4	3	--	5	8	1	--
27	6	--	--	27	2	1	3	19	5	9	--	9	15	4	5
6	--	--	--	5	1	--	--	2	--	1	3	3	1	--	2
2	2	--	--	--	2	2	--	1	3	--	--	1	3	--	--
4	--	--	--	1	1	1	1	2	2	--	--	1	2	1	--
12	2	--	--	6	4	3	1	5	5	1	3	5	6	1	2
2	1	--	2	5	--	--	--	3	1	1	--	2	--	2	1
1	3	--	--	1	3	--	--	1	3	--	--	3	1	--	--
3	4	--	2	6	3	--	--	4	4	1	--	5	1	2	1
9	--	--	--	9	--	--	--	8	1	--	--	--	1	--	8
2	1	--	--	2	--	--	1	3	--	--	--	2	--	1	1
2	2	--	--	1	1	2	--	4	--	--	--	2	2	--	--
3	2	--	--	4	--	1	--	3	2	--	--	4	1	--	--
16	5	--	--	16	1	3	1	18	3	--	--	--	9	3	9
42	5	--	2	47	2	--	--	33	4	7	5	10	6	6	27
13	6	--	--	15	2	1	1	11	2	6	--	5	12	1	1
4	4	--	--	1	3	4	--	5	3	--	--	1	5	2	--
30	11	--	--	22	9	3	7	18	18	5	--	19	18	3	1
89	26	--	2	85	16	8	8	67	27	18	5	35	41	12	29

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Table D-25
Log Consumption by Species, by Mill-Size-Class¹
(Thousand Board Feet, Scribner Log Rule)

Economic area and mill size-class	All species	Douglas fir	Hemlock	True firs	Spruce	Pond. pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound										
D	14,513	5,852	500	--	--	--	--	4,958	3	3,200
C & B ²	144,720	21,994	16,801	7,561	100	--	--	40,630	--	57,634
A	701,346	385,753	244,091	11,724	--	--	--	45,358	14,420	--
Total	860,579	413,599	261,392	19,285	100	--	--	90,946	14,423	60,834
Olympic Peninsula										
D	59,512	3,059	26	1	55	--	5	11,907	--	44,459
C	54,000	--	15,200	15,200	--	--	--	23,600	--	--
A	701,087	363,892	293,336	5,920	2,000	--	1,299	20,000	--	14,640
Total	814,599	366,951	308,562	21,121	2,055	--	1,304	55,507	--	59,099
Lower Columbia										
D & C ²	94,255	12,188	1	--	--	--	--	56	--	82,010
B	107,273	30,312	5,400	9,101	--	61,110	--	1,350	--	--
A	194,483	173,407	21,076	--	--	--	--	--	--	--
Total	396,011	215,907	26,477	9,101	--	61,110	--	1,406	--	82,010
Central Washington										
D, C & B ²	94,107	13,414	23,205	1,920	684	51,120	2,744	--	1,020	--
A	200,911	36,157	--	21,197	4,204	127,747	2,102	--	9,504	--
Total	295,018	49,571	23,205	23,117	4,888	178,867	4,846	--	10,524	--
Inland Empire										
D	1,151	532	8	40	3	133	325	40	50	20
C	23,200	15,280	--	1,750	--	1,400	700	1,400	2,670	--
B	116,298	25,607	14,350	8,482	10,890	49,311	--	2,918	4,740	--
A	226,518	111,245	9,657	--	5,284	48,893	34,553	6,560	10,326	--
Total	367,167	152,664	24,015	10,272	16,177	99,737	35,578	10,918	17,786	20
Total, State										
D ^{3,4}	263,538	35,045	23,740	1,961	742	51,253	3,074	16,961	1,073	129,689
C ⁵	221,920	37,274	32,001	24,511	100	1,400	700	65,630	2,670	57,634
B	223,571	55,919	19,750	17,583	10,890	110,421	--	4,268	4,740	--
A	2,024,345	1,070,454	568,160	38,841	11,488	176,640	37,954	71,918	34,250	14,640
Total	2,733,374	1,198,692	643,651	82,896	23,220	339,714	41,728	158,777	42,733	201,963

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

Table D-26

Log Consumption by Species, by County
(Thousand Board Feet, Scribner Log Rule)

Economic area and county	All species	Douglas fir	Hemlock	True firs	Spruce	Ponderosa pine	Lodgepole pine	Western redcedar	Other softwoods	Hardwoods
Puget Sound										
Island/Kitsap/San Juan ¹	90,640	90,106	534	--	--	--	--	--	--	--
King	129,419	61,360	53,133	14,724	100	--	--	102	--	--
Pierce	235,136	115,510	93,197	--	--	--	--	18,154	7,020	1,255
Skagit	60,670	33,000	16,500	500	--	--	--	1,670	--	9,000
Snohomish	327,382	105,960	95,442	2,510	--	--	--	66,867	7,403	49,200
Whatcom	17,332	7,663	2,586	1,551	--	--	--	4,153	--	1,379
Total	860,579	413,599	261,392	19,285	100	--	--	90,946	14,423	60,834
Olympic Peninsula										
Clallam	42,029	5,058	17,401	1	350	--	--	9,019	--	10,200
Grays Harbor/Jefferson/ Pacific ¹	269,511	65,124	164,674	15,200	1,705	--	5	22,803	--	--
Lewis	329,550	148,865	114,800	5,920	--	--	--	12,425	--	47,540
Mason	116,449	90,904	11,687	--	--	--	1,299	11,200	--	1,359
Thurston	57,060	57,000	0	--	--	--	--	60	--	--
Total	814,599	366,951	308,562	21,121	2,055	--	1,304	55,507	--	59,099
Lower Columbia										
Clark	35,255	35,188	1	--	--	--	--	56	--	10
Cowlitz	237,133	138,962	16,171	--	--	--	--	--	--	82,000
Klickitat/Skamania ¹	123,623	41,757	10,305	9,101	--	61,110	--	1,350	--	--
Total	354,011	215,907	26,477	9,101	--	61,110	--	1,406	--	82,010
Central Washington										
Chelan/Okanogan ¹	132,188	18,169	23,205	1,401	4,888	78,659	4,846	--	1,020	--
Yakima	162,830	31,402	--	21,716	--	100,208	--	--	9,504	--
Total	295,018	49,571	23,205	23,117	4,888	178,867	4,846	--	10,524	--
Inland Empire										
Asotin/Walla Walla ¹	62,050	19,157	14,350	5,130	9,183	9,470	--	--	4,740	20
Ferry	65,320	36,759	8	358	1,744	11,634	11,982	1,085	1,750	--
Spokane/Stevens ¹	239,797	96,748	9,657	4,784	5,250	78,633	23,596	9,833	11,296	--
Total	367,167	152,664	24,015	10,272	16,177	99,737	35,578	10,918	17,786	20
Total, State	2,733,374	1,198,692	643,651	82,896	23,220	339,714	41,728	158,777	42,733	201,963

¹Combined to avoid disclosure.

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Table D-27
Production and Disposition of Wood and Bark Residues
by Mill Size-Class¹ (Tons, Dry Weight)

Economic area and mill size- class	All residue			Wood residue			Bark residue		
	Total	Used ²	Unused	Total	Used ²	Unused	Total	Used ²	Unused
Puget Sound									
D	17,875	15,349	2,526	13,601	11,730	1,871	4,274	3,619	655
C & B ³	228,708	211,199	17,509	174,848	163,370	11,478	53,860	47,829	6,031
A	1,132,941	1,113,478	19,463	887,782	875,686	12,096	245,159	237,792	7,367
Total	1,379,524	1,340,026	39,498	1,076,231	1,050,786	25,445	303,293	289,240	14,053
Olympic Peninsula									
D	79,571	68,008	11,563	59,040	50,178	8,862	20,531	17,830	2,701
C	88,259	88,259	--	67,455	67,455	--	20,804	20,804	--
A	1,218,069	1,195,119	22,950	954,001	940,530	13,471	264,068	254,589	9,479
Total	1,385,899	1,351,386	34,513	1,080,496	1,058,163	22,333	305,403	293,223	12,180
Lower Columbia									
D & C ³	117,465	117,465	--	88,779	88,779	--	28,686	28,686	--
B	172,042	172,042	--	133,881	133,881	--	38,161	38,161	--
A	417,436	417,436	--	327,705	327,705	--	89,731	89,731	--
Total	706,943	706,943	--	550,365	550,365	--	156,578	156,578	--
Central Washington									
D, C & B ³	165,125	157,221	7,904	129,906	125,693	4,213	35,219	31,528	3,691
A	329,422	329,422	--	259,410	259,410	--	70,012	70,012	--
Total	494,547	486,643	7,904	389,316	385,103	4,213	105,231	101,540	3,691
Inland Empire									
D	1,577	895	682	1,207	739	468	370	156	214
C	27,765	27,291	474	21,702	21,228	474	6,063	6,063	--
B	187,196	187,196	--	146,032	146,032	--	41,164	41,164	--
A	424,494	424,494	--	334,465	334,465	--	90,029	90,029	--
Total	641,032	639,876	1,156	503,406	502,464	942	137,626	137,412	214
Total, State									
D ^{4,5}	381,613	358,938	22,675	292,533	277,119	15,414	89,080	81,819	7,261
C ⁶	344,732	326,749	17,983	264,005	252,053	11,952	80,727	74,696	6,031
B	359,238	359,238	--	279,913	279,913	--	79,325	79,325	--
A	3,522,362	3,479,949	42,413	2,763,363	2,737,796	25,567	758,999	742,153	16,846
Total	4,607,945	4,524,874	83,071	3,599,814	3,546,881	52,933	1,008,131	977,993	30,138

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Used residues were not necessarily consumed in the economic area in which they were produced.

³Combined to avoid disclosure.

⁴Total for Class D includes Class C for Lower Columbia.

⁵Total for Class D includes Class C and Class B for Central Washington.

⁶Total for Class C includes Class B for Puget Sound.

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Table D-28

**Production and Disposition of Wood Residues by Mill Size-Class¹
(Tons, Dry Weight)**

Economic area and mill size -		All Types						
class	Total	Total Used ⁶	Pulp	Board	Fuel	Other	Unused	
Puget Sound								
D	13,601	11,730	3,196	--	1,396	7,138	1,871	
C & B ⁷	174,848	163,370	34,851	--	67,502	61,017	11,478	
A	887,782	875,686	179,713	1,788	507,502	186,683	12,096	
Total	1,076,231	1,050,786	217,760	1,788	576,400	254,838	25,445	
Olympic Peninsula								
D	59,040	50,178	1,442	--	33,635	15,101	8,862	
C	67,455	67,455	24,832	--	42,623	--	--	
A	954,001	940,530	359,225	1,026	420,101	160,178	13,471	
Total	1,080,496	1,058,163	385,499	1,026	496,359	175,279	22,333	
Lower Columbia								
D & C ⁷	88,779	88,779	60,648	--	27,910	221	--	
B	133,881	133,881	73,213	5,774	54,894	--	--	
A	327,705	327,705	99,467	--	228,238	--	--	
Total	550,365	550,365	233,328	5,774	311,042	221	--	
Central Washington								
D, C & B ⁷	129,906	125,693	34,089	--	25,650	65,954	4,213	
A	259,410	259,410	89,272	30,052	97,623	42,463	--	
Total	389,316	385,103	123,361	30,052	123,273	108,417	4,213	
Inland Empire								
D	1,207	739	--	--	32	707	468	
C	21,702	21,228	4,268	--	9,768	7,192	474	
B	146,032	146,032	35,647	--	42,217	68,168	--	
A	334,465	334,465	39,551	15,612	99,052	180,250	--	
Total	503,406	502,464	79,466	15,612	151,069	256,317	942	
Total, State								
D ^{8,9}	292,533	277,119	99,375	--	88,623	89,121	15,414	
C ¹⁰	264,005	252,053	63,951	--	119,893	68,209	11,952	
B	279,913	279,913	108,860	5,774	97,111	68,168	--	
A	2,763,363	2,737,796	767,228	48,478	1,352,516	569,574	25,567	
Total	3,599,814	3,546,881	1,039,414	54,252	1,658,143	795,072	52,933	

¹ Mill size-classes identified as follows: Class D mills - less than 40,000 board feet capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 120,000; A = 120,000+.

² Slabs, edgings, trim and spur ends.

³ The Board column in the "Course" section had no figures and was therefore deleted.

⁴ Shavings.

⁵ Sawdust.

Table D-28 (Continued)
Production and Disposition of Wood Residues by Mill Size-Class
(Tons, Dry Weight)

Course ^{2,3}						
Total	Total used ⁶	Pulp	Fuel	Other	Unused	
8,733	7,404	3,196	484	3,724	1,329	
104,541	96,388	34,851	37,098	24,439	8,153	
500,783	500,783	164,317	242,857	93,609	--	
614,057	604,575	202,364	280,439	121,772	9,482	
37,744	31,614	815	22,699	8,100	6,130	
42,494	42,494	21,204	21,290	--	--	
538,999	538,557	156,082	259,398	123,077	442	
619,237	612,665	178,101	303,387	131,177	6,572	
51,792	51,792	31,200	20,445	147	--	
77,949	77,949	61,422	16,527	--	--	
183,290	183,290	96,441	86,849	--	--	
313,031	313,031	189,063	123,821	147	--	
71,942	71,126	25,697	15,535	29,894	816	
143,010	143,010	80,632	45,596	16,782	--	
214,952	214,136	106,329	61,131	46,676	816	
765	324	--	32	292	441	
12,383	11,909	4,268	3,689	3,952	474	
84,086	84,086	35,647	14,756	33,683	--	
183,899	183,899	39,551	45,294	99,054	--	
281,133	280,218	79,466	63,771	136,981	915	
170,976	162,260	60,908	59,195	42,157	8,716	
159,418	150,791	60,323	62,077	28,391	8,627	
162,035	162,035	97,069	31,283	33,683	--	
1,549,981	1,549,539	537,023	679,994	332,522	442	
2,042,410	2,024,625	755,323	832,549	436,753	17,785	

⁶ Used residues were not necessarily consumed in the economic area in which they were produced.

⁷ Combined to avoid disclosure.

⁸ Total for Class D includes Class C for Lower Columbia.

⁹ Total for Class D includes Class C and Class B for Central Washington.

¹⁰ Total for Class C includes Class B for Puget Sound.

¹¹ Class B data for Puget Sound is included with Class C Total. Class B data for Central Washington is included with Class D Total.

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Table D-28 (Continued)
Production and Disposition of Wood Residues
by Mill-Size-Class¹ (Tons, Dry Weight)

Economic area and mill size- class	Medium ⁴						
	Total	Total used ⁶	Pulp	Board	Fuel	Other	
Puget Sound							
D	1,281	1,281	--	--	456	825	--
C & B ⁷	28,375	28,375	--	--	12,691	15,684	--
A	181,317	175,269	11,508	1,788	116,157	45,816	6,048
Total	210,973	204,925	11,508	1,788	129,304	62,325	6,048
Olympic Peninsula							
D	6,537	6,067	--	--	6,059	8	470
C	7,546	7,546	--	--	7,546	--	--
A	194,154	189,060	76,108	1,026	86,399	25,527	5,094
Total	208,237	202,673	76,108	1,026	100,004	25,535	5,564
Lower Columbia							
D & C ⁷	16,906	16,906	14,032	--	2,860	14	--
B	23,983	23,983	--	5,774	18,209	--	--
A	69,291	69,291	3,026	--	66,265	--	--
Total	110,180	110,180	17,058	5,774	87,334	14	--
Central Washington							
D, C & B ⁷	28,480	25,752	--	--	--	25,752	2,728
A	57,785	57,785	--	30,052	2,052	25,681	--
Total	86,265	83,537	--	30,052	2,052	51,433	2,728
Inland Empire							
D	131	130	--	--	--	130	1
C	4,243	4,243	--	--	2,623	1,620	--
B	27,484	27,484	--	--	6,804	20,680	--
A	75,195	75,195	--	14,904	19,693	40,598	--
Total	107,053	107,052	--	14,904	29,120	63,028	1
Total, State							
D ^{8,9}	53,335	50,136	14,032	--	9,375	26,729	3,199
C ¹⁰	40,164	40,164	--	--	22,860	17,304	--
B	51,467	51,467	--	5,774	25,013	20,680	--
A	577,742	566,600	90,642	47,770	290,566	137,622	11,142
Total	722,708	708,367	104,674	53,544	347,814	202,335	14,341

Table D-28 (Continued)
Production and Disposition of Wood Residues
by Mill Size-Class¹ (Tons, Dry Weight)

Fine ⁵						
Total	Total used ⁶	Pulp	Board	Fuel	Other	Unused
3,587	3,045	--	--	456	2,589	542
41,932	38,607	--	--	17,713	20,894	3,325
205,682	199,634	3,888	--	148,488	47,258	6,048
251,201	241,286	3,888	--	166,657	70,741	9,915
14,759	12,497	627	--	4,877	6,993	2,262
17,415	17,415	3,628	--	13,787	--	--
220,848	212,913	127,035	--	74,304	11,574	7,935
253,022	242,825	131,290	--	92,968	18,567	10,197
20,081	20,081	15,416	--	4,605	60	--
31,949	31,949	11,791	--	20,158	--	--
75,124	75,124	--	--	75,124	--	--
127,154	127,154	27,207	--	99,887	60	--
29,484	28,815	8,392	--	10,115	10,308	669
58,615	58,615	8,640	--	49,975	--	--
88,099	87,430	17,032	--	60,090	10,308	669
311	285	--	--	--	285	26
5,076	5,076	--	--	3,456	1,620	--
34,462	34,462	--	--	20,657	13,805	--
75,371	75,371	--	708	34,065	40,598	--
115,220	115,194	--	708	58,178	56,308	26
68,222	64,723	24,435	--	20,053	20,235	3,499
64,423	61,098	3,628	--	34,956	22,514	3,325
66,411	66,411	11,791	--	40,815	13,805	--
635,640	621,657	139,563	708	381,956	99,430	13,983
834,696	813,889	179,417	708	477,780	155,984	20,807

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**Table D-29
Production and Disposition
of Bark Residues by Mill Size-Class¹ (Tons, Dry Weight)**

Economic area and mill size- class	Used ²						
	Total	Total used	Pulp	Board	Fuel	Other	Unused
Puget Sound							
D	4,274	3,619	--	--	817	2,802	655
C & B ³	53,860	47,829	--	--	21,454	26,375	6,031
A	245,159	237,792	--	--	159,469	78,323	7,367
Total	303,293	289,240	--	--	181,740	107,500	14,053
Olympic Peninsula							
D	20,531	17,830	--	--	2,942	14,888	2,701
C	20,804	20,804	--	--	16,470	4,334	--
A	264,068	254,589	--	--	203,815	50,774	9,479
Total	305,403	293,223	--	--	223,227	69,996	12,180
Lower Columbia							
D & C3	28,686	28,686	17,680	--	10,935	71	--
B	38,161	38,161	--	--	38,161	--	--
A	89,731	89,731	--	--	89,761	--	--
Total	156,578	156,578	17,680	--	138,827	71	--
Central Washington							
D, C & B3	35,219	31,528	--	--	9,927	21,601	3,691
A	70,012	70,012	--	--	60,478	9,534	--
Total	105,231	101,540	--	--	70,405	31,135	3,691
Inland Empire							
D	370	156	--	--	15	141	214
C	6,063	6,063	--	--	4,128	1,935	--
B	41,164	41,164	--	--	24,674	16,490	--
A	90,029	90,029	--	--	41,537	48,492	--
Total	137,626	137,412	--	--	70,354	67,058	214
Total, State							
D ^{4,5}	89,080	81,819	17,680	--	24,636	39,503	7,261
C ⁶	80,727	74,696	--	--	42,052	32,644	6,031
B	79,325	79,325	--	--	62,835	16,490	--
A	758,999	742,153	--	--	555,030	187,123	16,846
Total	1,008,131	977,993	17,680	--	684,553	275,760	30,138

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Used residues were not necessarily consumed in the economic area in which they were produced.

³Combined to avoid disclosure.

⁴Total for Class D includes Class C for Lower Columbia.

⁵Total for Class D includes Class C and Class B for Central Washington.

⁶Total for Class C includes Class B for Puget Sound.

Table D-30

**Production and Disposition of Wood and Bark Residues
by County (Tons, Dry Weight)**

Economic area and county	All residue			Wood residue			Bark residue		
	Total	Used ¹	Unused	Total	Used ¹	Unused	Total	Used ¹	Unused
Puget Sound									
Island/Kitsap/San Juan ²	202,294	202,294	--	159,389	159,389	--	42,905	42,905	--
King	240,748	240,737	11	188,453	188,445	8	52,295	52,292	3
Pierce	281,855	252,250	29,605	221,397	197,823	23,574	60,458	54,427	6,031
Skagit	122,943	120,441	2,502	96,018	94,161	1,857	26,925	26,280	645
Snohomish	502,970	495,590	7,380	388,568	388,562	6	114,402	107,028	7,374
Whatcom	28,714	28,714	--	22,406	22,406	--	6,308	6,308	--
Total	1,379,524	1,340,026	39,498	1,076,231	1,050,786	25,445	303,293	289,240	14,053
Olympic Peninsula									
Clallam	65,671	54,342	11,329	50,737	42,093	8,644	14,934	12,249	2,685
Grays Harbor/Jefferson/ Pacific ²	416,811	416,795	16	325,043	325,027	16	91,768	91,768	--
Lewis	548,204	547,544	660	425,980	425,336	644	122,224	122,208	16
Mason	236,228	213,720	22,508	185,317	172,288	13,029	50,911	41,432	9,479
Thurston	118,985	118,985	--	93,419	93,419	--	25,566	25,566	--
Total	1,385,899	1,351,386	34,513	1,080,496	1,058,163	22,333	305,403	293,223	12,180
Lower Columbia									
Clark	85,507	85,507	--	67,369	67,369	--	18,138	18,138	--
Cowlitz	416,526	416,526	--	323,418	323,418	--	93,108	93,108	--
Klickitat/Skamania ²	10	214,910	--	169,578	169,578	--	45,332	45,332	--
Total	706,943	706,943	--	550,365	550,365	--	156,578	156,578	--
Central Washington									
Chelan/Okanogan ²	223,186	215,282	7,904	175,780	171,567	4,213	47,406	43,715	3,691
Yakima	271,361	271,361	--	213,536	213,536	--	57,825	57,825	--
Total	494,547	486,643	7,904	389,316	385,103	4,213	105,231	101,540	3,691
Inland Empire									
Asotin/Walla Walla ²	111,909	111,981	28	88,182	88,161	21	23,727	23,720	7
Ferry	110,057	109,583	474	86,541	86,067	474	23,516	23,516	--
Spokane/Stevens ²	419,066	418,412	654	328,683	328,236	447	90,383	90,176	207
Total	641,032	639,876	1,156	503,406	502,464	942	137,626	137,412	214
Total, State	4,607,945	4,524,874	83,071	3,599,814	3,546,881	52,933	1,008,131	977,993	30,138

¹Used residues were not necessarily consumed in the area or county in which they were produced.²Combined to avoid disclosure.

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Table D-31
Production and Disposition of Wood Residues by County
(Tons, Dry Weight)

Economic area and county	All types							Total used ⁵
	Total	used ⁵	Pulp	Board	Fuel	Other	Unused	
Puget Sound								
Island/Kitsap/San Juan ⁶	159,389	159,389	3,162	--	153,440	2,787	--	87,640
King	188,453	188,445	13,702	--	156,923	17,820	8	106,825
Pierce	221,397	197,823	48,811	--	115,233	33,779	23,574	123,347
Skagit	96,018	94,161	5,676	1,788	19,303	67,394	1,857	115,194
Snohomish	388,568	388,562	133,711	--	130,458	124,393	6	54,147
Whatcom	22,406	22,406	12,698	--	1,043	8,665	--	52,830
Total	1,076,231	1,050,786	217,760	1,788	576,400	254,838	25,445	614,057
Olympic Peninsula								
Clallam	50,737	42,093	--	--	41,410	683	8,644	30,508
Grays Harbor/Jefferson								
Pacific ⁶	325,045	325,027	30,519	--	289,738	4,770	16	187,448
Lewis	425,980	425,336	311,841	--	99,173	14,322	644	245,191
Mason	185,317	172,288	38,873	--	29,029	104,386	13,029	103,866
Thurston	93,419	93,419	4,266	1,026	37,009	51,118	--	52,224
Total	1,080,496	1,058,163	385,499	1,026	496,359	175,279	22,333	619,237
Lower Columbia								
Clark	67,369	67,369	--	--	67,148	221	--	37,050
Cowlitz	323,418	323,418	157,089	--	166,329	--	--	183,382
Klickitat/Skamania ⁶	159,578	159,578	76,239	5,774	77,565	--	--	92,599
Total	550,365	550,365	233,328	5,774	311,042	221	--	313,031
Central Washington								
Chelan/Okanogan ⁶								
Yakima	175,780	171,567	62,754	--	35,853	72,960	4,213	96,836
Total	213,536	213,536	60,607	30,052	87,420	35,457	--	118,116
Inland Empire								
Asotin/Walla Walla ⁶	88,182	88,161	--	--	27,608	60,553	21	48,466
Ferry	86,541	86,067	4,268	15,612	66,051	136	474	48,034
Spokane/Stevens ⁶	328,683	328,236	75,198	--	57,410	195,628	447	184,633
Total	503,406	502,464	79,466	15,612	151,069	256,317	942	281,133
Total, State	3,599,814	3,546,881	1,039,414	54,252	1,658,143	795,072	52,933	2,042,410
								2,024,625

¹Coarse residue includes slab, edgings, sawmill trim, and planer trim.

²The Board column under "Coarse" has been deleted because no figures were reported.

³Medium residue is planer shavings.

⁴Fine residue is sawdust.

⁵Used residues were not necessarily consumed in the economic area in which they were produced.

⁶Combined to avoid disclosure.

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Table D-31 (Continued)
Production and Disposition of Wood Residues by County
(Tons, Dry Weight)

Coarse ^{1,2}				Medium ³					
Pulp	Fuel	Other	Unused	Total	Total used ⁵	Pulp	Board	Fuel	Other
3,162	84,320	158	--	35,829	35,829	--	--	34,560	1,269
13,702	87,082	6,035	6	37,837	37,837	--	--	34,312	3,525
48,811	41,284	25,099	8,153	47,520	41,472	--	--	34,441	7,031
--	9,873	42,957	1,317	19,822	19,822	1,788	1,788	3,576	12,670
123,991	57,873	47,471	6	65,521	65,521	9,720	--	22,415	33,386
12,698	7	52	--	4,444	4,444	--	--	--	4,444
202,364	280,439	121,772	9,482	210,973	204,925	11,508	1,788	129,304	62,325
--	24,100	480	5,928	7,727	7,529	--	--	7,256	3
16,427	170,997	8	16	60,768	60,768	--	--	56,016	4,752
152,006	84,997	7,560	628	81,047	81,045	75,082	--	5,963	--
9,668	--	94,198	--	38,905	33,811	--	--	28,717	5,094
--	23,293	28,931	--	19,790	19,790	1,026	1,026	2,052	15,686
178,101	303,387	131,177	6,572	208,237	202,673	76,108	1,026	100,004	25,535
--	36,903	147	--	15,134	15,134	--	--	15,120	14
127,641	55,741	--	--	66,020	66,020	14,032	--	51,988	--
61,422	31,177	--	--	29,026	29,026	3,026	5,774	20,226	--
189,063	123,821	147	--	110,180	110,180	17,058	5,774	87,334	14
54,362	15,535	26,123	816	39,257	36,529	--	--	--	36,529
51,967	45,596	20,553	--	47,008	47,008	--	30,052	2,052	14,904
106,329	61,131	46,676	816	86,265	83,537	--	30,052	2,052	51,433
--	14,756	33,695	15	19,853	19,853	--	--	6,804	13,049
4,268	43,213	79	474	18,821	18,821	--	14,904	3,892	25
75,198	5,802	103,207	426	68,379	68,378	--	--	18,424	49,954
79,466	63,771	136,981	915	107,053	107,052	--	14,904	29,120	63,028
755,323	832,549	436,753	17,785	722,708	708,367	104,674	53,544	347,814	202,335

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Table D-31 (Continued)
Production and Disposition of Wood Residues by County
(Tons, Dry Weight)

Economic area and county	Fine ⁴							
	Unused	Total	Total used ⁵	Pulp	Board	Fuel	Other	Unused
Puget Sound								
Island/Kitsap/San Juan ⁶	--	35,920	35,920	--	--	34,560	1,360	--
King	--	43,791	43,789	--	--	35,529	8,260	2
Pierce	6,048	50,530	41,157	--	--	39,508	1,649	9,373
Skagit	--	22,049	21,509	3,888	--	5,054	11,767	540
Snohomish	--	93,706	93,706	--	--	50,170	43,536	0
Whatcom	--	5,205	5,205	--	--	1,036	4,169	0
Total	6,048	251,201	241,286	3,888	--	166,657	70,741	9,915
Olympic Peninsula								
Clallam	468	12,502	10,254	--	--	10,054	200	2,248
Grays Harbor/Jefferson								
Pacific ⁶	--	76,827	76,827	14,092	--	62,725	10	--
Lewis	2	99,742	99,728	84,753	--	8,213	6,762	14
Mason	5,094	42,546	34,611	29,205	--	312	5,094	7,935
Thurston	--	21,405	21,405	3,240	--	11,664	6,501	--
Total	5,564	253,022	242,825	131,290	--	92,968	18,567	10,197
Lower Columbia								
Clark	--	15,185	15,185	--	--	15,125	60	--
Cowlitz	--	74,016	74,016	15,416	--	58,600	--	--
Klickitat/Skamania ⁶	--	37,953	37,953	11,791	--	26,162	--	--
Total	--	127,154	127,154	27,207	--	99,887	60	--
Central Washington								
Chelan/Okanogan ⁶	2,728	39,687	39,018	8,392	--	20,318	10,308	669
Yakima	--	48,412	48,412	8,640	--	39,772	--	--
Total	2,728	88,099	87,430	17,032	--	60,090	10,308	669
Inland Empire								
Asotin/Walla Walla ⁶	--	19,863	19,857	--	--	6,048	13,809	6
Ferry	--	19,686	19,686	--	708	18,946	32	--
Spokane/Stevens ⁶	1	75,671	75,651	--	--	33,184	42,467	20
Total	1	115,220	115,194	--	708	58,178	56,308	26
Total, State	14,341	834,696	813,889	179,417	708	477,780	155,984	20,807

Table D-32
Production and Disposition of Bark Residues
by County (Tons, Dry Weight)

Economic area and county	All Bark	Used ¹					Unused
		Total	Pulp	Board	Fuel	Other	
Puget Sound							
Island/Kitsap/San Juan ²	42,905	42,905	--	--	41,357	1,548	--
King	52,295	52,292	--	--	42,630	9,662	3
Pierce	60,458	54,427	--	--	42,140	12,287	6,031
Skagit	26,925	26,280	--	--	5,229	21,051	645
Snohomish	114,402	107,028	--	--	45,357	61,671	7,374
Whatcom	6,308	6,308	--	--	5,027	1,281	--
Total	303,293	289,240	--	--	181,740	107,500	14,053
Olympic Peninsula							
Clallam	14,934	12,249	--	--	12,014	235	2,685
Grays Harbor/Jefferson/ Pacific ²	91,768	91,768	--	--	91,756	12	--
Lewis	122,224	122,208	--	--	107,592	14,616	16
Mason	50,911	41,432	--	--	462	40,970	9,479
Thurston	25,566	25,566	--	--	11,403	14,163	--
Total	305,403	293,223	--	--	223,227	69,996	12,180
Lower Columbia							
Clark	18,138	18,138	--	--	18,067	71	--
Cowlitz	93,108	93,108	17,680	--	75,428	--	--
Klickitat/Skamania ²	45,332	45,332	--	--	45,332	--	--
Total	156,578	156,578	17,680	--	138,827	71	--
Central Washington							
Chelan/Okanogan ²	47,406	43,715	--	--	31,402	12,313	3,691
Yakima	57,825	57,825	--	--	39,003	18,822	--
Total	105,231	101,540	--	--	70,405	31,135	3,691
Inland Empire							
Asotin/Walla Walla ²	23,727	23,720	--	--	7,224	16,496	7
Ferry	23,516	23,516	--	--	23,478	38	--
Spokane/Stevens ²	90,383	90,176	--	--	39,652	50,524	207
Total	137,626	137,412	--	--	70,354	67,058	214
Total, State	1,008,131	977,993	17,680	--	684,553	275,760	30,138

¹Used residues were not necessarily consumed in the economic area in which they were produced.

²Combined to avoid disclosure.

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Table D-33
Degree of Lumber Manufacture
(Thousand Board Feet, Lumber Tally)

Economic area and mill size-class ¹	Green	Kiln-dried	Air-dried	Total	Rough	Surfaced
Puget Sound						
D	14,331	2,116	191	16,638	10,692	5,946
C & B ²	108,799	81,593	--	190,392	59,740	130,652
A	579,122	373,137	--	952,259	112,781	839,478
Total	702,252	456,846	191	1,159,289	183,213	976,076
Olympic Peninsula						
D	37,804	27,659	11	65,474	35,709	29,765
C	80,638	--	--	80,638	45,700	34,938
A	512,842	509,350	--	1,022,192	123,365	898,827
Total	631,284	537,009	11	1,168,304	204,774	963,530
Lower Columbia						
D & C ²	38,880	49,424	--	88,304	11,236	77,068
B	27,135	86,591	34,192	147,918	36,882	111,036
A	275,838	71,962	--	347,800	26,998	320,802
Total	341,853	207,977	34,192	584,022	75,116	508,906
Central Washington						
D, C & B ²	11,485	123,725	1,306	136,516	4,657	131,859
A	20,000	251,374	--	271,374	3,844	267,530
Total	31,485	375,099	1,306	407,890	8,501	399,389
Inland Empire						
D	1,296	--	163	1,459	839	620
C	15,500	--	8,000	23,500	3,850	19,650
B	32,310	127,249	--	159,559	32,310	127,249
A	820	344,860	3,280	348,960	820	348,140
Total	49,926	472,109	11,443	533,478	37,819	495,659
Total, State						
D ^{3,4}	103,796	202,924	1,671	308,391	63,133	245,258
C5	204,937	81,593	8,000	294,530	109,290	185,240
B	59,445	213,840	34,192	307,477	69,192	238,285
A	1,388,622	1,550,683	3,280	2,942,585	267,808	2,674,777
Total	1,756,800	2,049,040	47,143	3,852,983	509,423	3,343,560

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

Table D-34
Lumber Production by Headrig Type,
by Mill Size-Class¹ (Thousand Board Feet, Lumber Tally)

Economic area and mill size- class	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scagg double cut saw
Puget Sound						
D	16,638	14,522	2,116	--	--	--
C & B ²	190,392	31,853	131,003	--	16,100	11,436
A	952,259	--	766,928	--	138,581	46,750
Total	1,159,289	46,375	900,047	--	154,681	58,186
Olympic Peninsula						
D	65,474	22,259	27,315	--	14,700	1,200
C	80,638	23,438	57,200	--	--	--
A	1,022,192	--	656,388	--	286,999	78,805
Total	1,168,304	45,697	740,903	--	301,699	80,005
Lower Columbia						
D & C ²	88,304	304	88,000	--	--	--
B	147,918	--	125,123	--	--	22,795
A	347,800	--	278,190	5,560	64,050	--
Total	584,022	304	491,313	5,560	64,050	22,795
Central Washington						
D, C & B ²	136,516	30	135,976	--	510	--
A	271,374	--	198,562	--	72,812	--
Total	407,890	30	334,538	--	73,322	--
Inland Empire						
D	1,459	1,409	50	--	--	--
C	23,500	19,900	--	--	--	3,600
B	159,559	--	159,559	--	--	--
A	348,960	36,509	271,451	--	--	41,000
Total	533,478	57,818	431,060	--	--	44,600
Total, State						
D ^{3,4}	308,391	38,524	253,457	--	15,210	1,200
C ⁵	294,530	75,191	188,203	--	16,100	15,036
B	307,477	--	284,682	--	--	22,795
A	2,942,585	36,509	2,171,519	5,560	562,442	166,555
Total	3,852,983	150,224	2,897,861	5,560	593,752	205,586

¹Mill size-classes identified as follows: Class D mills = less than 40,000 board feet of capacity per 8-hour shift; C = 40,000 - 79,999; B = 80,000 - 119,999; A = 120,000+.

²Combined to avoid disclosure.

³Total for Class D includes Class C for Lower Columbia.

⁴Total for Class D includes Class C and Class B for Central Washington.

⁵Total for Class C includes Class B for Puget Sound.

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Table D-35

**Lumber Production by Headrig Type,
by County (Thousand Board Feet, Lumber Tally)**

Economic area and county	All types	Circular saw	Band saw	Gang saw	Chipping saw	Scagg double cut saw
Puget Sound						
Island/Kitsap/San Juan ¹	166,300	300	166,000	--	--	--
King	202,755	762	201,993	--	--	--
Pierce	233,841	11,437	85,936	--	78,282	58,186
Skagit	101,500	2,500	67,500	--	31,500	--
Snohomish	430,875	31,261	354,715	--	44,899	--
Whatcom	24,018	115	23,903	--	--	--
Total	1,159,289	46,375	900,047	--	154,681	58,186
Olympic Peninsula						
Clallam	57,895	14,695	25,200	--	16,800	1,200
Grays Harbor/Jefferson/ Pacific ¹	355,697	4,955	234,800	--	115,942	--
Lewis	458,708	24,603	340,600	--	14,700	78,805
Mason	196,904	1,359	90,288	--	105,257	--
Thurston	99,100	85	50,015	--	49,000	--
Total	1,168,304	45,697	740,903	--	301,699	80,005
Lower Columbia						
Clark	70,304	304	70,000	--	--	--
Cowlitz	338,000	--	273,950	--	64,050	--
Klickitat/Skamania ¹	175,718	--	147,363	5,560	--	22,795
Total	584,022	304	491,313	5,560	64	22,795
Central Washington						
Chelan/Okanogan ¹	183,755	30	183,215	--	510	--
Yakima	224,135	--	151,323	--	72,812	--
Total	407,890	30	334,538	--	73,322	--
Asotin/Walla Walla¹						
Ferry	91,966	50	91,916	--	--	--
Spokane/Stevens ¹	91,150	5,550	41,000	--	--	44,600
Total	350,362	52,218	298,144	--	--	--
Total, State	533,478	57,818	431,060	--	--	44,600
Total, State	3,852,983	150,224	2,897,861	5,560	593,752	205,586

¹Combined to avoid disclosure.

VENEER AND PLYWOOD MILLS 1986

Table D-36
Number of Veneer and Plywood Mills

Economic area and county	All types	Veneer only	Layup only	Veneer and layup
Puget Sound				
King	1	--	--	
Pierce	3	--	2	1
Skagit	1	--	1	1
Snohomish	1	1	--	--
Whatcom	1	--	--	--
Total	7	1	3	3
Olympic Peninsula				
Clallam	2	1	--	1
Grays Harbor	2	--	1	1
Lewis	2	2	--	--
Mason	1	--	--	--
Thurston	3	1	2	--
Total	10	4	3	3
Lower Columbia				
Clark	1	--	--	1
Cowlitz	1	1	--	--
Klickitat	1	--	--	1
Skamania	1	--	--	1
Total	4	1	--	3
Central Washington				
Kittitas	1	1	--	--
Okanogan	2	1	--	1
Yakima	1	--	--	1
Total	4	2	--	2
Inland Empire				
Stevens	1	--	--	1
Total	1	--	--	1
Total, State	26	8	6	12

VENEER AND PLYWOOD MILLS 1986

Table D-37
Installed Eight-Hour Single-Shift Capacity
(Thousand Square Feet, 3/8-Inch Basis)

Economic area and county	Type of operation			
	Veneer only	Layup only	Veneer and layup	
			Veneer	Layup
Puget Sound				
King	--	--	200	175
Pierce	--	285	75	130
Skagit	--	150	--	--
Snohomish	90	--	--	--
Whatcom	--	--	170	133
Total	90	435	445	438
Olympic Peninsula				
Clallam	88	--	190	180
Grays Harbor	--	225	35	35
Lewis	205	--	--	--
Mason	--	--	144	120
Thurston	60	1,005	--	--
Total	353	1,230	369	335
Lower Columbia				
Clark	--	--	350	250
Cowlitz	168	--	--	--
Klickitat	--	--	300	105
Skamania	--	--	150	150
Total	168	--	800	505
Central Washington				
Kittitas	240	--	--	--
Okanogan	100	--	262	262
Yakima	--	--	217	217
Total	340	--	479	479
Inland Empire				
Stevens	--	--	256	160
Total	--	--	256	160
Total, State	951	1,665	2,349	1,917

VENEER AND PLYWOOD MILLS 1986

Table D-38
Number of Mills by Lathe Log Diameter Limit

Economic area	Lathe log diameter limit							
	Layup only	20-29	30-39	40-49	50-59	60-69	70-79	80+
Puget Sound	3	--	--	2	--	2	--	--
Olympic Peninsula	3	--	2	--	1	2	--	2
Lower Columbia	--	1	1	--	--	1	--	1
Central Washington	--	--	2	1	--	1	--	--
Inland Empire	--	1	--	--	--	--	--	--
Total, State	6	2	5	3	1	6	--	3

Table D-39
Number of Mills by Minimum Core Size Produced

Economic area	Diameter of cores (inches)										No lathe or core
	3	4	5	6	7	8	9	10	11		
Puget Sound	--	--	--	--	--	--	--	2	2	2	3
Olympic Peninsula	--	--	--	--	--	2	--	2	3	3	3
Lower Columbia	--	--	--	--	1	--	1	1	1	--	
Central Washington	--	--	--	--	2	1	--	--	1	--	
Inland Empire	--	--	--	--	--	1	--	--	--	--	
Total, State	--	--	--	--	3	4	1	5	7	6	

VENEER AND PLYWOOD MILLS 1986

Table D-40
Number of Mills Having Selected Equipment

Economic area and county	4-foot lathe	8-foot lathe	Slicer	Veneer chipper	Core chipper	Cold press	Hot press	Burner
Puget Sound								
King	--	1	--	--	1	--	1	--
Pierce	1	--	--	1	--	2	2	--
Skagit	--	--	--	1	--	--	1	--
Snohomish	1	--	--	1	1	1	1	1
Whatcom	1	1	--	1	1	--	1	--
Total	3	2	--	4	3	3	6	1
Olympic Peninsula								
Clallam	1	2	1	2	2	--	1	--
Grays Harbor	1	--	--	2	1	1	1	--
Lewis	1	1	--	1	1	--	--	--
Mason	--	1	--	1	1	--	1	--
Thurston	1	--	--	--	--	--	1	1
Total	4	4	1	6	5	1	4	1
Lower Columbia								
Clark	1	1	--	1	1	--	1	--
Cowlitz	--	1	--	1	--	--	--	--
Klickitat	--	1	--	1	--	--	1	--
Skamania	1	1	--	1	1	--	1	1
Total	2	4	--	4	2	--	3	1
Central Washington								
Kittitas	--	1	--	1	1	--	--	1
Okanogan	1	1	--	2	2	--	1	--
Yakima	--	1	--	--	1	--	1	--
Total	1	3	--	3	4	--	2	1
Inland Empire								
Stevens	--	1	--	1	1	--	1	--
Total	--	1	--	1	1	--	1	--
Total, State	10	14	1	18	15	4	16	4

VENEER AND PLYWOOD MILLS 1986

Table D-41
Number of Mills by Tenure of Present Ownership

Economic area and site occupancy (years)	All mills	Tenure of present mill ownership (years)				
		0-2	3-5	6-10	11-20	21+
Puget Sound						
3-5	1	--	--	--	--	1
21+	6	1	1	--	--	4
Total	7	1	1	--	--	5
Olympic Peninsula						
11-20	1	--	--	--	1	--
21+	9	--	--	1	2	6
Total	10	--	--	1	3	6
Lower Columbia						
21+	4	--	--	--	--	4
Total	4	--	--	--	--	4
Central Washington						
6-10	1	--	1	--	--	--
11-20	2	1	--	--	1	--
21+	1	--	--	--	--	1
Total	4	1	1	--	1	1
Inland Empire						
11-20	1	--	--	--	1	--
Total	1	--	--	--	1	--
Total, State						
3-5	1	--	--	--	--	1
6-10	1	--	1	--	--	--
11-20	4	1	--	--	3	--
21+	20	1	1	1	2	15
Total	26	2	2	1	5	16

VENEER AND PLYWOOD MILLS 1986

Table D-42
Average Number of Operating Days

Economic area	Veneer only	Layup only	Veneer and layup
Puget Sound	230	245	254
Olympic Peninsula	226	294	198
Lower Columbia	225	--	255
Central Washington	185	--	252
Inland Empire	--	--	355
Statewide Average	216	269	248

Table D-43
**Log Inventory Changes, Log Consumption
and Apparent Log Receipts**
(Thousand Board Feet, Scribner Log Rule)

Economic area	Log inventory			1986 log consumption	Apparent 1986 log receipts
	January 1, 1986	December 31, 1986	Net change		
Puget Sound	13,588	7,587	-6,001	77,935	71,934
Olympic Peninsula	5,010	3,145	-1,865	83,246	81,381
Lower Columbia	23,782	826,714	802,932	75,502	878,434
Central Washington/ Inland Empire ¹	50,224	53,028	2,804	192,767	195,571
Statewide Average	92,604	890,474	797,870	429,450	1,227,320

¹Combined to avoid disclosure.

VENEER AND PLYWOOD MILLS 1986

Table D-44
Production and Disposition of Wood Residues (Tons, Dry Weight)

Economic area	Total	Total used ¹	Used			
			Pulp and board	Fuel	Other	Unused
Puget Sound						
Coarse ² & medium ³	130,214	130,214	30,157	91,535	8,522	--
Fine ⁴	9,958	9,958	--	9,958	--	--
Total	140,172	140,172	30,157	101,493	8,522	--
Olympic Peninsula						
Coarse ² & medium ³	140,457	140,457	42,096	71,628	26,733	--
Fine ⁴	11,403	11,403	--	11,403	--	--
Total	151,860	151,860	42,096	83,031	26,733	--
Lower Columbia						
Coarse ² & medium ³	123,542	123,542	65,363	38,398	19,781	--
Fine ⁴	6,496	6,496	--	6,496	--	--
Total	130,038	130,038	65,363	44,894	19,781	--
Central Washington/ Inland Empire⁵						
Coarse ² & medium ³	279,551	277,115	134,416	121,858	20,841	2,436
Fine ⁴	11,077	11,077	--	11,077	--	--
Total	290,628	288,192	134,416	132,935	20,841	2,436
Total, State						
Coarse ² & medium ³	673,764	671,328	272,032	323,419	75,877	2,436
Fine ⁴	38,934	38,934	--	38,934	--	--
Total	712,698	710,262	272,032	362,353	75,877	2,436

¹Used residues were not necessarily consumed in the area in which they were produced.

²Coarse residue includes log trim, cores, veneer clippings, roundup and spur trim.

³Medium residue includes reject veneer and panel trim.

⁴Fine residue includes sawdust and sander dust.

⁵Combined to avoid disclosure.

VENEER AND PLYWOOD MILLS 1986

Table D-45
Veneer and Plywood Production
(Thousand Square Feet, 3/8-Inch Basis)

Economic area and county	Veneer	Plywood ¹
Puget Sound King/Pierce/Skagit/ Snohomish/Whatcom ²	41,667	452,614
Olympic Peninsula Clallam/Grays Harbor/ Lewis/Mason/ Thurston ²	120,585	518,372
Lower Columbia Clark/Cowlitz/ Klickitat/Skamania ²	25,320	295,269
Central Washington/ Inland Empire ² Okanogan/Yakima/ Kittitas ²	83,028	503,557
Total, State	270,600	1,769,812

¹Includes hardwood and softwood faced plywood.

²Combined to avoid disclosure.

PULP MILLS 1986

Table D-46
Number of Pulp Mills¹

Economic area and county	All mills	Type of pulp mill			
		Sulfite	Sulfate	Ground- wood	Semi- Chemical
Puget Sound					
Pierce	2	--	1	1	--
Snohomish	1	--	1	--	--
Whatcom	2	1	--	--	1
Total	5	1	2	1	1
Olympic Peninsula					
Clallam	2	1	--	1	--
Grays Harbor	2	2	--	--	--
Jefferson	1	--	1	--	--
Total	5	3	1	1	--
Lower Columbia					
Clark	2	1	1	--	--
Cowlitz	5	--	2	1	2
Total	7	1	3	1	2
Inland Empire					
Spokane	1	--	--	1	--
Walla Walla	2	--	1	--	1
Total	3	--	1	1	1
Total, State	20	5	7	4	4

¹No board mills have operated in Washington State since 1982.

PULP MILLS 1986

Table D-47
Installed Capacity by Type of Mill

Economic area and county	All mills	Type of pulp mill			
		Sulfite	Sulfate	Ground- wood	Semi- Chemical
----- Puget Sound ----- Pierce					
	1,627	--	1,200	427	--
Snohomish	386	--	386	--	--
Whatcom	612	558	--	--	54
Total	2,625	558	1,586	427	54
----- Olympic Peninsula -----					
Clallam	1,000	500	--	500	--
Grays Harbor	683	683	--	--	--
Jefferson	495	--	495	--	--
Total	2,178	1,183	495	500	--
----- Lower Columbia -----					
Clark	1,202	410	792	--	--
Cowlitz	5,415	--	3,702	1,248	465
Total	6,617	410	4,494	1,248	465
----- Inland Empire -----					
Spokane	212	--	--	212	--
Walla Walla	926	--	784	--	142
Total	1,138	--	784	212	142
Total, State	12,558	2,151	7,359	2,387	661

¹24-hour capacity.